

Michael H. Siemaszko

Ideas Into Software LLC

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Software Engineering • Automation • Integration • Consulting

For the past 15+ years I've had the opportunity to work on a variety of projects with clients from the USA, UK and EU, across many diverse industries such as IT, Advertising, Finance, Fitness, Human resources, Industrial equipment, Media, Print, Real estate, Retail, Sport, Telecommunications, Travel and more, as well as non-profit organizations (NGO).

The experience and expertise thus gathered allows me to tackle complex and challenging IT problems faced by companies and organizations of different sizes.

I can help regardless of project's stage, i.e. brownfield or greenfield, even if it's only a business idea at this stage – from conceptualization through delivery, I will work with you to clearly understand your needs, as well as your existing product or service, scope the project, then perform any necessary engineering work to deliver solution.

Strong communication skills • Exceptional attention to detail • Extensive virtual office environment experience • Ability to work both in a team and independently

TECHNICAL SKILLS

OSGi development: Core specifications' implementations (including Eclipse Equinox and Apache Felix); Compendium and Enterprise specifications' implementations (including Apache Felix and Apache Aries), BND;

Model-driven development: EMF (Eclipse Modeling Framework), Eclipse MMT / QVTO, Swagger, OpenAPI Generator;

API development & integration: REST, GraphQL, Swagger, OpenAPI Generator, SOAP, RPC, SSH automation;

Enterprise Application Integration: Apache Camel, RabbitMQ;

Full stack development: Java (Java SE, Java EE, Jakarta EE), Dart, Flutter, SQL, Spring Framework, JavaScript, JSON, XML, HTML, CSS;

Build & CI/CD Automation: Gradle, Maven, Tycho, Jenkins, Grafana k6;

Infrastructure automation: Terraform, Ansible, Packer, WinRM & PowerShell, VMware vSphere API, Cisco Networks ASA REST API, A10 Networks AX REST API, F5 Networks iControl SOAP & REST API;

Virtualization & cloud computing: VMware vSphere, KVM, Docker, Docker Compose, Kubernetes, Firebase, Microsoft Azure, AWS, Google Cloud Platform;

Data Persistence: JPA, Hibernate, PostgreSQL, CockroachDB, MariaDB, MySQL, MongoDB;

Security: Keycloak, Pac4j, OAuth 2.0, Spring Security;

OS: Linux, Windows Server;

EXPERIENCE

Ideas Into Software LLC, ONSITE & REMOTE

11/2010 – present

Software engineer / IT Consultant

Providing software engineering / IT consulting services with responsibilities ranging from technical analysis and design through solution architecture, implementation, as well as coordination with stakeholders and UI/graphic designer(s).

Some of the long term B2B contracts so far included:

- a 3 year B2B contract with a Jena, DE, EU company, whose founders are the forefront of OSGi and model-driven development;
- a 2,5 year B2B contract with a Silicon Valley, CA, USA company, developing software defined application deployment and management platform capable of controlling the most sophisticated applications and programmable infrastructures, during which I developed solutions utilizing products from and used by world's most well-known IT companies, such as Cisco, SAP, NetApp, Microsoft, F5 Networks, and more;

Some of the projects so far included (see <https://ideas.info.software/case-studies/index.html> for more details on some of those projects):

- Migration of OSGi GraphQL Servlet Whiteboard to support Jakarta Servlet API 6.x and OSGi Jakarta Servlet Whiteboard; utilized Java 17, GraphQL Java 19.5, GraphQL Java Servlet 15.0, Jakarta Servlet API 6.0, Gecko, Apache Felix, Eclipse Jetty 12, OSGi 8.1 (including OSGi Jakarta Servlet Whiteboard API), Junit, BND 6.3.1, Gradle 7.4;
- Migration of Apache Felix sub-projects to support Jakarta Servlet API 6.x and OSGi Jakarta Servlet Whiteboard; utilized Java 17, Apache Felix (including Apache Felix HTTP Jetty, Apache Felix Servlet API, Apache Felix Health Checks, Apache Felix Webconsole, Apache Felix Webconsole Plugins, Apache Felix System Ready, Apache Felix Inventory), Jakarta Servlet API 6.0, Eclipse Jetty 12, OSGi 8.1 (including OSGi Jakarta Servlet Whiteboard API), BND, Maven;
- Exporters for EMF (Eclipse Modeling Framework), i.e. specialized utilities - multi-format exporters - for EMF (Eclipse Modeling Framework), as part of "Gecko EMF Utilities" project, including ODS (OpenDocument Spreadsheet) Exporter for EMF, XLSX Exporter for EMF, CSV Exporter for EMF, with two modes of operation (ZIP and "flat" mode), R language Exporter for EMF; utilized Java 11, EMF (Eclipse Modeling Framework), FastCSV, SODS, Google Guava, Apache Felix, OSGi 8, Junit, BND 7.1.0, Gradle 7.4;
- Full stack development of application for amateur golfers; on the front-end utilized Dart, Flutter, FlutterFire (including Firebase Messaging, Firebase Crashlytics, Firebase Analytics and Firebase Remote Configuration), as well as plugins such as as auto_route, bloc, dio, geolocator, hydrated, in_app_purchase, google_maps_flutter, image_cropper, image_picker, intl, and other; on the back-end utilized Java 11, OSGi 7, EMF (Eclipse Modeling Framework), Eclipse MMT / QVTO, Gecko framework (including Gecko EMF, Gecko EMF Utilities, Gecko EMF Persistence, Gecko Search), Java RESTful Web Services (JAX-RS), Apache Felix (including Apache Felix HTTP, Apache Felix Event Admin, Apache Felix Health Checks, Apache Felix Webconsole), Eclipse Jetty 9, Firebase Admin SDK, Google Play Android Developer API / Android Publisher SDK, Swagger (including Swagger Annotations, Swagger JAX-RS and Swagger Gradle Plugin), OpenAPI Generator, Keycloak (including OAuth authentication via Google and Apple), Pac4J, Lucene Core API, Spatial4J / JTS, GeoJSON, Junit, BND, Gradle, MongoDB, Docker, Docker Compose, Grafana k6, Mustache; for CI/CD utilized Jenkins, Docker, Docker Compose, MongoDB, Keycloak, Ansible, Grafana k6;
- Swagger / OpenAPI GeoJSON support in REST API endpoints utilizing generated EMF model code; utilized Java 11, EMF (Eclipse Modeling Framework), Eclipse MMT / QVTO, Gecko (including Gecko EMF, Gecko Search), Swagger (including Swagger Annotations, Swagger JAX-RS, Swagger Gradle Plugin), OpenAPI Generator, Java RESTful Web Services (JAX-RS),

JSON, Apache Felix, Eclipse Jetty 9, OSGi 7, Junit, BND 6.3.1, Gradle 6.6.1, MongoDB, Docker Compose, Bash, Dart, Flutter;

- Implementation of "OGC API - Features" standard; utilized Java 17, EMF (Eclipse Modeling Framework), Lucene Core API 9.7.0, Gecko (including Gecko EMF, Gecko Search), OpenAPI Generator, Jakarta RESTful Web Services (JAKARTA-RS), Jakarta Servlet API 5.x, JSON, Apache Felix, Eclipse Jetty 11, OSGi 8, Junit, BND 7.0.0, Gradle 7.4.2, MongoDB, Docker Compose;
- Converters for EMF (Eclipse Modeling Framework), i.e. specialized utilities – Converters for EMF (Eclipse Modeling Framework) – as part of "Gecko EMF Utilities" project, including Java Reference Type to EPackage converter, DTO to EPackage converter, DTO to EObject converter; utilized Java 11, EMF (Eclipse Modeling Framework), Apache Felix, OSGi 8, Junit, BND 7.1.0, Gradle 7.4;
- Automation of accounting data exchange; utilized Python, SQL, MariaDB, Docker, Kubernetes, NFS;
- Migration to new environment of custom-made MIS/ERP system; utilized Packer, cloud-init, Terraform, Ansible, PowerShell, WinRM, Hyper-V hypervisor, KVM hypervisor, Docker, Kubernetes, Helm, MetalLB load-balancer, NFS, GitLab CI/CD, MariaDB, Nginx, PHP, JavaScript, Bash, SQL, HTML, CSS, JADX, Android Debug Bridge (adb) and Android Gradle Plugin
- Deployment of helpdesk / ticketing solution; utilized Ruby 2.5.7, Ruby on Rails, Zammad 3.2.0, Nginx 1.14.0, PostgreSQL 12.1, Memcached 1.5.6, Exim 4.90, Freshdesk, Python 3, XML, Zammad API, Ubuntu 18.04 LTS;
- Technical audit of custom-made MIS/ERP system;
- Post-installation automation of SAP deployments utilizing Hibersap and SAP Java Connector; utilized Java, OSGi, SAP Technical Configuration ABAP API, SAP Java Connector (JCo / jConnector), Hibersap;
- Automated provisioning, configuration and management of Windows Server 2012 VMs on Azure Cloud; utilized Java, Spring, OSGi, PowerShell, Azure Cloud API, Azure Java SDK, WinRM4J, Windows Server 2012;
- Automated provisioning, configuration and management of Windows Server 2012 VMs on vSphere; utilized Java, PowerShell, Spring, OSGi, vSphere, Windows Server 2012, VMware VI (vSphere) Java API, Azure Cloud API, Windows DSC, Azure Java SDK, WinRM4J;
- Automated provisioning, configuration and management of Hortonworks Data Platform (HDP) cluster; utilized Java, Spring, OSGi, vSphere, VMware VI (vSphere) Java API, Hortonworks Data Platform/HDP (including: Ambari, HDFS, HttpFS, MapReduce, Yarn, Zookeeper, Spark, Storm, Pig, Hive, Kafka, Flume, Oozie, Nifi, Hue, Zeppelin), SAP HANA Vora;
- Automated configuration and management of A10 Networks software load balancer; utilized Java, OSGi, A10 Networks AX REST API, Apache HttpComponents;
- Automated configuration and management of Cisco ASA security device; utilized Java, OSGi, Cisco ASA REST API, Apache HttpComponents, Jackson 2, Apache Commons IO, Google Guava;
- Automated provisioning, configuration and management of F5 Networks software load balancers; utilized Java, VMWare Java API, F5 BIG-IQ & BIG-IP iControl SOAP & REST APIs;
- Automated management and querying of Systems, Software channels, System groups and Activation Keys in Red Hat Satellite Server; utilized Java, OSGi, Apache XML-RPC, Jackson 2;
- Automated management, querying and authentication of users, organizational units and groups in Active Directory server; utilized Java, OSGi, Apache Directory LDAP API;
- NetApp SVM content uploader with configurable timeout and cancelable operation; utilized Java, OSGi, NetApp SVM, NetApp Manageability SDK, SSHJ;
- Enhancing automated vSphere deployment feature of a software defined application

- deployment and management platform; utilized Java, Spring, OSGi, vSphere, VMware VI (vSphere) Java API, Apache HttpComponents, Apache Commons CLI, Apache Commons IO;
- On-demand, asynchronous collection of diagnostic information downloadable via GUI of Company's product; utilized Java, OSGi, Eclipse RCP, Eclipse RAP, Eclipse EMF, JCR (Java Content Repository), Apache Commons IO, Apache Commons Lang, Google Guava;
 - Distributed systems' monitoring and control utilizing Apache Zookeeper; utilized Java, Groovy, Bash, Apache Zookeeper, Apache Curator, Apache Commons Exec, Apache Commons CLI;
 - Distributed systems' monitoring utilizing Riemann and RabbitMQ message broker; utilized Clojure, Java, OSGi, RabbitMQ, Riemann, Langohr (Clojure client for RabbitMQ), RabbitMQ-Riemann plugin;
 - vApp cluster configuration management utilizing Apache Zookeeper; utilized Java, Apache Zookeeper, Open Virtualization Format (OVF), Apache Commons Configuration, Apache Commons JXPath;
 - License management solution, including time-limited evaluation type as well as capacity- and time- limited subscription paid type of licenses; utilized Java, Java Keytool, Groovy, Bash, OSGi, Apache Commons Codec, Apache Commons IO, Apache Commons CLI, Apache CXF, Jackson;
 - Automated collection and identification of 3rd party libraries' licensing info used in Company's product; utilized Java, Apache Commons IO, Apache Commons Compress, jarchivelib, OpenCSV, Google Guava;
 - Integration of unified logging layer and centralized log management system into highly complex product tech stack; utilized Java, OSGi, Graylog/Logstash, Pax Logging, Logback, GELF4j;
 - Integration of Apache Camel with Syslog for logging events generated by Company's product; utilized Java, OSGi, Spring, Apache Aries Blueprint, Apache Camel, RabbitMQ, Syslog, Graylog/Logstash, Syslog4j;
 - Integration of Apache Camel and RabbitMQ message broker into highly complex product tech stack; utilized Java, Spring, Spring Dynamic Modules, OSGi, Apache Aries Blueprint, Apache Camel, RabbitMQ, ActiveMQ;
 - Integrating Swagger into highly complex product tech stack; utilized Java, OSGi, Apache Aries Blueprint, Swagger 1.5;
 - Integrating Spring Security LDAP with Active Directory server; utilized Java, Spring, Spring Security LDAP, OSGi, Apache Aries Blueprint;
 - Migration and upgrade of highly complex product tech stack, consisting of hundreds of OSGi bundles and thousands of 3rd party dependencies; utilized Java, Spring, Spring Dynamic Modules, Spring Security, OSGi, Apache Aries Blueprint, Apache Camel, RabbitMQ, ActiveMQ, Apache CXF;
 - Migration of highly complex Eclipse platform based product build automation from Ant to Maven-based Tycho; utilized Java, OSGi, Maven, Tycho, Mojo Executor, Tycho Versions, Maven Download Plugin, Maven Replacer Plugin;
 - Apache XMLBeans library customization; utilized Java, OSGi, Apache XMLBeans;
 - MS Azure Cloud API Automation and Management Java Client for automated provisioning of deployments into MS Azure Cloud;
 - Active Directory integrated DNS Java Client for automated configuration and management of AD DNS on Windows Server 2012;
 - Windows Remote Management (WinRM) Java client for remote configuration and management of Windows Server 2012;
 - Automated self-signed certificate generator and importer; utilized Java JCE (Java Cryptographic Extensions), Java Keytool, Groovy, Bash;
 - For a Fortune 500 company, enhanced their internal self-service and ticketing application –

functionalities developed included new front-end features as well as a back-end WS Proxy component; utilized Java, AspectJ, Spring (incl. Spring Sync), Thymeleaf with Ultraq dialect, Apache Commons Libraries (Codec, Lang, other), JavaScript (incl. Angular JS), CSS, HTML, Tomcat 6 Application Server, MySQL 5 DBMS;

- As a full stack developer, implemented new features as well as modified existing ones in a Digital Asset Management (DAM) platform allowing for meta-data analysis and discovery of video, audio, image and textual content, utilized mostly by media companies. Introduced to project two new JS & HTML5 only client applications for internal REST services' as well as a front-end built pipeline – a fully automated processing and build of front-end artifacts via Grunt and Maven; utilized Java, JavaScript (incl.: "Backbone" and "Marionette" frameworks), HTML5, CSS (incl.: "LessCSS"), JSON, REST, Bash, Freemarker, Tomcat 7 Application Server, Apache2 HTTP Server;
- For a Fortune 500 company, improved requirements elicitation and management process on a large, agile project; delivered a proposal of solutions (practices & process improvements) and tools for remediating defined problems, as a result a road-map was formulated and gradual optimization started; refined user stories through the introduction of scenarios and acceptance criteria for each scenario, with the goal of formalizing them using Gherkin language upon improving overall test coverage of the system; visualized product backlog via "SpecLog", software integrated with "Microsoft Team Foundation Server (TFS) 2012", providing an additional layer on top of the TFS, replacing flat-list view of the product backlog with visual view, allowing for evolving and refining the product backlog as well as easier comprehension of the scope of the system through mapping techniques such as story mapping and impact mapping;
- Conceptualized solution architecture – utilizing best practices and state of the art tools for knowledge management systems, including semantic (Web 3.0) technologies, NLP and graph databases, along with implementation suggestions based on ready open source solutions – for a system whose aim was to streamline the process of obtaining 'safety critical' certifications for software and devices in automotive, avionics and rail industries;
- Refactored parts of an e-learning platform as well as recommended solutions in order to modularize it and modernize technologies used in the user interface layer; utilized Java, Vaadin, SQL, XML, OSGi;
- Developed new features and introduced improvements in an airfare booking platform; utilized Java, Hibernate, Spring, SQL, XML;
- Formulated a solution architecture for a domain parking platform as part of scaling it to support up to 1 million of visits per day;
- Audited work done by previously hired company on a mobile e-commerce platform project; analysed problems, refined requirements and solution architecture; sourced company responsible for delivering complete solution;
- Implemented new and enhanced existing functionalities in an online banking application; utilized Java, SQL, XML, XSL, Oracle DBMS, WebLogic Application Server;
- Improvements and contributions to the "Kubernetes Maven Plugin" – a Maven plugin which fully automates building and pushing of Docker images to registry during Maven install phase, as well as deploying of any required infrastructure and applications to Kubernetes cluster during Maven deploy phase – utilizing Java, Maven, Docker, Kubernetes;
- Bug fixes and improvements to the "Jekyll::Linkpreview" plugin; utilized Ruby language and Jekyll static site generator;
- Various serverless tools; utilized Serverless framework, JavaScript, Node.js, AWS, HTML5 & CSS3;

Software engineer, Activist

Volunteered time to valuable causes – utilized software engineering experience and organizational skills to conduct online social media campaigns and partake in non-profit projects. Some of the technologies utilized include JavaScript, HTML, CSS.

UPAYA LABS, KRAKOW, POLAND, ONSITE & REMOTE

11/2003 - 07/2009

Software engineer / IT Consultant

Provided software engineering / IT consulting services with responsibilities ranging from technical analysis and design through solution architecture, implementation, as well as coordination with stakeholders and UI/graphic designer(s).

Some of the projects included:

- Customized (Spree OS) e-commerce application and extended its functionality with online payment processing integrated with PayU gateway, automated shipping calculation, promoted products, and more; utilized Ruby, Ruby on Rails framework (RoR), SQL, Javascript, HTML, CSS, MySQL 5 DBMS, Thin HTTP server;
- Developed data access layer of a semantic (Web 3.0) personal privacy application; utilized Java, Hibernate, SQL;
- As part of a large project for a telecommunications company, refactored core parts of a distributed Trouble Ticketing application, recommended changes to existing architecture, proposed a new technical architecture, created proof-of-concept prototypes, migrated application to “split directory development” environment; utilized Java, SQL, Hibernate, JasperReports, extremeTable, Velocity, Apache Commons Configuration, Oracle 9i DBMS, BEA WebLogic 8.1 Application Server;
- Developed components of a CRM/marketing application; utilized Java, Hibernate, Spring Framework, Acegi Security Framework, SQL, Javascript, HTML, CSS, PostgreSQL DBMS, GlassFish Application Server;
- Developed portal for a major public campaign „Kupując polskie produkty dajesz pracę” (“Buying Polish products you give employment”); utilized PHP, SQL, JavaScript, HTML, CSS;
- Developed a corporate portal for a well-known advertising agency; utilized PHP, SQL, JavaScript, HTML, CSS;
- Developed Business Process Offshoring (BPO) portal, with functionalities including polls, search, events, newsletter, CMS with multiple language versions, and more; utilized PHP, SQL, HTML, CSS, JavaScript, Flash, MySQL DBMS;
- Developed a data distribution application; utilized Java, SQL, XML, MySQL DBMS, Apache Tomcat Application Server, Apache HTTP Server.

MRTED POLSKA SP. Z O.O., KRAKOW, POLAND

05/2003 - 04/2006

Software engineer

- Developed interfaces for exchange of candidate and job data between clients', job boards', and the company's online HR TalentLink system. Utilized Java, ColdFusion, SQL, XML, Oracle DBMS;
- Developed various new features and fixes to the the company's online HR TalentLink system, as well as new applications including an application for management of translations within company's system, an application for quick account setup and configuration, and more; utilized Java, ColdFusion (incl. Mach-II framework), SQL, XML, JavaScript, HTML, CSS, Oracle DBMS;

Software engineer / IT Consultant

Provided software engineering / IT consulting services with responsibilities ranging from technical analysis and design through solution architecture, implementation, as well as coordination with stakeholders and UI/graphic designer(s).

Some of the projects included:

- Implemented deliverables related to transfer to a new content management system at a Fortune 500 company; utilized Java, JSP, SQL, HTML, CSS, DB2 DBMS;
- Developed advertising banner management application, integrated it with client's online book store and site, subsequently extended that e-commerce application with additional search capabilities, link to off-site book reviews, and more; utilized Python, SQL, Javascript, MivaScript, HTML, CSS, MySQL DBMS, Apache HTTP Server;
- Developed a community portal with discussion forums, online store, mailing list, specialized features, as well as administrative tools for site management; utilized Java, SQL, HTML, CSS, MySQL DBMS, Apache Tomcat Application Server, Apache HTTP Server;
- Customized (Miva Merchant) e-commerce application to provide functionalities needed for client's online bookstore, such as additional product information, advanced search engine, book reviews and ratings, more; utilized MivaScript, Javascript, HTML, CSS, dBase DBMS;
- Developed a content-management system; utilized Java, SQL, Javascript, XML, XSL, XSP (Apache Cocoon), HTML, CSS, Velocity (Template Engine), MySQL DBMS, Apache Tomcat Application Server, Apache HTTP Server;
- Refactored and enhanced a follow-up version of the previously developed e-commerce application with new capabilities, such as product templates, product categories, advanced search engine, featured products, best-sellers, advanced reporting with ability to export to file, product data import from CSV file, integrated CRM, more; utilized Java, SQL, Javascript, XML, XSL, XSP (Apache Cocoon), HTML, CSS, MySQL DBMS, Apache Tomcat Application Server, Apache HTTP Server;
- Developed an e-commerce application, with functionalities such as integrated payment processing and shipping rate calculation, modular architecture to allow for easy change of payment processor and/or shipping carrier, recurring purchases, multiple pricing options per product, ability to grant rewards based on preset conditions, as well as highly customisable presentation by way of separating logic, data, and layout; utilized Java, SQL, Javascript, XML, XSL, XSP (Apache Cocoon), HTML, CSS, MySQL DBMS, Apache Tomcat Application Server, Apache HTTP Server;
- For real-estate services company, maintained their custom automated rental listings parsing and management application by implementing new modules as well as re-engineering existing ones; utilized Perl, FileMaker Pro DBMS;
- Developed a portal for database professionals' community, with integrated magazine, online exams, discussion forums, and customisable presentation by way of separating logic, data, and layout; utilized Java, SQL, Javascript, XML, XSL, XSP (Apache Cocoon), HTML, CSS, MySQL DBMS, Apache Tomcat Application Server, Apache HTTP Server;
- Developed a Human Resources (HR) management web-based application, with features including a guided, 10-step process for candidates to input their resume information, ability to customise all information for all 10 steps of the process, advanced search engine with relevancy-calculation, ability to create 'result lists' to forward to clients, more; utilized Perl, SQL, MySQL DBMS, Apache HTTP Server;
- Developed components of a collaborative filtering platform; utilized Tcl, XML, Oracle DBMS;
- Developed a listings management application for a real estate agency; utilized MivaScript, dBase DBMS;
- Developed an online reservation application for a travel agency with features such as online trip

booking with add-on options, air fare calculation and more; utilized Perl, SQL, MySQL DBMS, Apache HTTP Server;

- For a major Polish-American daily newspaper, customized (Miva Merchant) e-commerce application to create an online bookstore; utilized MivaScript, dBase DBMS;
- Developed a web-based coaching application for an online training company with integrated payment for services, coach-trainee interaction via Java chat and discussion boards, training logs, and more; utilized Perl, MySQL DBMS, HTML, Javascript;

ADDISON, NEW YORK CITY, NY, USA

06/1999 - 06/2000

Web developer

- Developed web sites and online versions of annual reports for Fortune 500 companies;
- Modified, optimised and configured various web applications, including discussion forums, search engines, mailing forms;
- Utilized Perl, SQL, Javascript, HTML, DHTML, CSS, MySQL DBMS, Apache HTTP Server;

INGRESSNET LLC, NEW YORK CITY, NY, USA

01/1998 - 02/1999

Technical support, Webmaster, Junior System Administrator

- Provided technical support to dialup (PPP & ISDN), email, hosting and dedicated line customers;
- Designed, developed, and maintained (updated content, troubleshooted problems, analysed traffic, etc.) company's internal web sites. Utilized HTML, CGI;
- Administered network and servers (running FreeBSD, Solaris), utilized Bash and Perl;
- Documented solutions to various system and network problems as well as created instructions on how to use and configure features and applications;
- Helped with onsite and offsite equipment installations and configurations (CSU/DSUs, routers, servers, Ethernet, Voice Processing System);

EDUCATION & PROFESSIONAL DEVELOPMENT

Tackling the Challenges of Big Data, Massachusetts Institute of Technology Professional Education (<https://mitprofessionalx.mit.edu/>), April 2016

B.A. International Relations, Cracow University of Economics, *Coursework in 2005-2006 semester, degree programme not completed due to professional commitments*

Certificate in Computer Information Systems, University of California, Berkeley Extension (<http://extension.berkeley.edu/>), *Completed coursework in 1998*

Certificate in SQL (ANSI), Brainbench (<http://www.brainbench.com/>)

Certificate in Perl, Brainbench (<http://www.brainbench.com/>)

DISCLAIMER, AS REQUIRED BY LAW: I hereby authorize you to process my personal data included in my job application for the needs of the recruitment process.