Michael H. Siemaszko

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Software Engineering • Automation • Integration • Consulting

I bring 15+ years of experience working on a variety of software projects with clients from the USA, UK and EU, across many diverse industries.

Cisco Networks, **F5 Networks**, **A10 Networks**, **NetApp**, **SAP** and **CenturyLink**, are just some of the companies with whom I either cooperated on projects or who use solutions I engineered.

Some of my recent work – conceptualized, developed, then open-sourced by me – was praised by **OSGi Alliance** (https://www.osgi.org/) itself numerous times, as well as various software engineers / computer scientists from around the world, working with companies such as **Adobe**, **Bosch**, **Capgemini**, **Gitlab**, etc.

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

TECHNICAL SKILLS

Full Stack Development (Java, JavaScript, JSON, XML, SQL, HTML, CSS)

OSGi (Core, Compendium and Enterprise specifications' implementations, incl. Apache Aries)

Programmatic Infrastructure Automation / Software Defined Infrastructure (VMware vSphere API, Cisco Networks ASA REST API, F5 Networks iControl SOAP & REST API, A10 Networks AX REST API, Red Hat Satellite API, WinRM & PowerShell)

Build Automation (Maven, Tycho, including custom plugins)

SAP Automation (jConnector, Hibersap)

API Integration (RPC, SOAP, REST)

Direct Integration (i.e. where API is not available)

Enterprise Application Integration (Apache Camel)

API Development

Messaging (RabbitMQ)

Data Persistence (JPA, Hibernate, PostgreSQL, CockroachDB)

Cloud Computing (Docker, Kubernetes, VMware vSphere, Microsoft Azure, AWS)

Cognitive Cloud Computing (IBM Watson)

Serverless Computing (Serverless Framework, AWS Lambda)

Big Data: Hortonworks Data Platform (HDP) incl. Ambari, HDFS incl. HttpFS, MapReduce, Yarn, Spark, Storm, Pig, Hive, Kafka, Flume, Oozie, Nifi, Hue, Zeppelin

Security: Java Cryptographic Extensions (JCE), Java Keytool, OpenSSL

Architecture as Code (Structurizr)

API Documentation (Swagger / OpenAPI)

EXPERIENCE

Personal IT Services Company, ONSITE (VARIOUS LOCATIONS) & TELECOMMUTING   11/2010 - present

IT Consultant / Software engineer, Technical analyst, Solution Architect

Offer IT consulting services – software development and integration as well as requirements elicitation & analysis, technical analysis & design and solution architecture.

IT Consultant (Contracting to client from IT industry), Saratoga, CA, USA (100% remote), 04/2015 – 11/2017

Provide software engineering services to a company developing software defined application deployment and management platform capable of controlling the most sophisticated applications and programmable infrastructures. Develop 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 included:

- automated configuration and management of A10 Networks server load balancers; utilizing Java, A10 Networks AX REST API;

- upgrade of tech stack architected using OSGi, consisting of 300+ bundles (modules) to latest versions of Apache Aries Blueprint, Spring, Spring Security, Apache Camel, Apache CXF and RabbitMQ as message broker;

- MS Azure Cloud API Automation and Management Java Client for 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;

- LDAP Java client for interfacing with Active Directory server;

- automated provisioning, configuration and management of F5 Networks software load balancers; utilizing Java, VMWare Java API, F5 BIG-IQ & BIG-IP iControl SOAP & REST APIs;

- on-demand, fully automated deployment of infrastructures for BigData/IOT applications for a variety of industry use cases; automated provisioning, configuration and management of Hadoop clusters of various (pre-defined & configurable) topologies; utilizing Java, VMWare Java API, Apache Ambari, SAP HANA Vora, Spark, Kafka, Flume, Storm, Hive, Pig, Oozie, Nifi, as well as HDFS incl. HttpFS, MapReduce, Yarn, ZooKeeper, Hue and Zeppelin;

- distributed monitoring & control of nodes constituting company's product, utilizing Java, Apache ZooKeeper, Apache Curator, Apache Commons Exec, Apache Commons CLI, Logback, Groovy, Bash;

- downloadable on-demand collection of selected application data for easier offline error diagnostics, utilizing Java, custom JCR (Java Content Repository) implementation, Eclipse RCP, Eclipse RAP;

- components of automated virtual appliance deployer, i.e. "OVF importer" (Java, VMware VI (vSphere) Java API), "NetApp SVM content uploader" (Java, NetApp Manageability SDK), "VMware vSphere datastore content uploader" (Java, Apache Commons HttpClient, Apache Commons CLI, Apache Commons IO), "VMware vSphere datastore content copier" (Java, VMWare VI (vSphere) Java API);

- automated configuration of cluster nodes, utilizing Java, OVF, Apache Commons Configuration, Apache Commons JXPath, Apache ZooKeeper;

- unified logging layer and integration with log management system; utilizing Pax Logging, Logback, Logstash;

- application license generator & manager, utilizing Java, JSON, Apache CXF, Groovy, Java Keytool, OpenSSL;

- automated self-signed certificate generator and importer, utilizing Java JCE (Java Cryptographic Extensions), Java Keytool, Groovy, Bash;

IT Consultant (Contracted to client from pharmaceutical industry), Warsaw, Poland (100% remote), 3/2015 - 4/2015

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.

IT Consultant (Contracted to client from media industry), London, UK, 6/2014 - 11/2014

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.

IT Consultant (Contracted to client from electrical equipment industry), Krakow, Poland, 10/2013 - 2/2014

For a global Top 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 roadmap 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.

IT Consultant (Contracted to client from IT industry), Krakow, Poland, 2013 (3 months)

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.

IT Consultant (Contracted to client from education industry), Krakow, Poland, 5/2012 - 6/2012

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.

IT Consultant (Contracted to client from travel industry), Krakow, Poland, 3/2012 - 4/2012

Developed new features and introduced improvements in an airfare booking platform. Utilized Java, Hibernate, Spring, SQL, XML.

IT Consultant (Contracted to client from IT industry), Krakow, Poland (90% remote), 12/2011 - 2/2012

Formulated a solution architecture for a domain parking platform as part of scaling it to support up to 1 million of visits per day.

IT Consultant (Contracted to client from consulting industry), Wroclaw, Poland (75% remote), 08/2011 - 12/2011

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.

IT Consultant (Contracted to client from banking industry), Wroclaw, Poland, 11/2010 - 3/2011

Implemented new and enhanced existing functionalities in an online banking application. Utilized Java, SQL, XML, XSL, Oracle DBMS, WebLogic Application Server.

NON-GOVERNMENTAL ORGANIZATIONS (NGO), POLAND & ONLINE   *07/2009 - 11/2010*

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   *05/2006 - 07/2009*

IT Consultant / Software engineer, Technical analyst, Solution Architect

Provided IT consulting services with responsibilities ranging from project scoping, technical analysis and design through solution architecture to implementation and coordination with stakeholders and UI/graphic designer(s).

IT Consultant (Contracted to client from retail industry), Krakow, Poland, 2008 (6 months)

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.

IT Consultant (Contracted to client from IT industry), Krakow, Poland, 2007 (4 months)

Developed data access layer of a semantic (Web 3.0) personal privacy application. Utilized Java, Hibernate, SQL

IT Consultant (Contracted to client from IT industry), Gdansk, Poland, 2006-2007 (5 months)

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.

IT Consultant (Contracted to client from finance industry), Krakow, Poland, 2006 (5 months)

Built components of a CRM/marketing application. Utilized Java, Hibernate, Spring Framework, Acegi Security Framework, SQL, Javascript, HTML, CSS, PostgreSQL DBMS, GlassFish Application Server.

MRTED POLSKA SP. Z O.O. (IT industry), KRAKOW, POLAND   *11/2004 - 04/2006*

Software engineer

Implemented various new features and fixes to the the company's online HR TalentLink system, as well as developed new applications including an application for management of translations within company's system, an application for quick account setup and configuration, more. Utilized Java, ColdFusion (incl. Mach-II framework), SQL, XML, JavaScript, HTML, CSS, Oracle DBMS

UPAYA LABS, KRAKOW, POLAND   *11/2003 - 11/2004*

IT Consultant / Software engineer, Technical analyst, Solution Architect

Provided IT consulting services with responsibilities ranging from project scoping, technical analysis and design through solution architecture to implementation and coordination with stakeholders and UI/graphic designer(s).

IT Consultant (Contracted to client from advertising industry), Krakow, Poland (90% remote), 2004 (3 months)

Produced portal for a major public campaign „Kupując polskie produkty dajesz pracę" ("Buying Polish products you give employment"). Utilized JavaScript, HTML, CSS.

IT Consultant (Contracted to client from advertising industry), Krakow, Poland (90% remote), 2004 (2 months)

Delivered a corporate portal for a well-known advertising agency. Utilized JavaScript, HTML, CSS.

IT Consultant (Contracted to client from retail industry), Italy (100% remote), 2004 (3 months)

Co-developed and integrated an E-commerce application payment module. Utilized Java, XML, Jboss Application Server.

IT Consultant (Contracted to client from real estate industry), New York City, NY, USA (100% remote), 2004 (4 months)

Developed a data distribution application. Utilized Java, SQL, XML, MySQL DBMS, Apache Tomcat Application Server, Apache HTTP Server.

MRTED POLSKA SP. Z O.O. (IT industry), KRAKOW, POLAND   *05/2003 - 11/2003*

Software engineer

Implemented 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.

DBA (DOING BUSINESS AS) MICHAL SIEMASZKO, NEW YORK CITY, NY, USA   *08/1999 - 12/2002*

IT Consultant / Software engineer, Technical analyst, Solution Architect

Provided IT consulting services with responsibilities ranging from project scoping through solution architecture to implementation and coordination with stakeholders and UI/graphic designer(s).

IT Consultant (Contracted to client from IT industry), New York City, NY, USA, 10/2002 - 12/2002

Implemented software development tasks related to internal transfer to a new content management system. Utilized Java, JSP, SQL, HTML, CSS, DB2 DBMS.

IT Consultant (Contracted to client from retail industry), South Nyack, NY, USA (90% remote), 08/2002 - 09/2002

Developed an advertising banner management application, integrated it with client's online book store and site. In addition, extended the 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.

IT Consultant (Contracted to client from IT industry), New York City, NY, USA (90% remote), 05/2002 - 06/2002

Delivered a community site 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.

IT Consultant (Contracted to client from retail industry), South Nyack, NY, USA (90% remote), 02/2002 - 04/2002

Tailored the original 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;

IT Consultant (Contracted to client from IT industry), New York City, NY, USA (90% remote), 11/2001 - 04/2002

Built 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.

IT Consultant (Contracted to client from IT industry), New York City, NY, USA (90% remote), 12/2001 - 03/2002

Refactored and enhanced an 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.

IT Consultant (Contracted to client from IT industry), New York City, NY, USA (90% remote), 03/2001 - 07/2001

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 pre-set 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.

IT Consultant (Contracted to client from real estate industry), New York City, NY, USA (99% remote), 02/2001 - 11/2003

For real-estate services company, maintained their custom automated rental listings parsing and management application by implementing new modules as well as reengineering existing ones. Utilized Perl, FileMaker Pro DBMS.

IT Consultant (Contracted to client from IT industry) London, UK (100% remote), 02/2001 - 06/2001

Produced 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.

IT Consultant (Contracted to client from IT industry), New York City, NY, USA (90% remote), 10/2000 - 01/2001

Implemented a Human Resources 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.

IT Consultant (Contracted to client from IT industry), New York City, NY, USA, 06/2000 - 09/2000

Developed components of a collaborative filtering platform. Utilized Tcl, XML, Oracle DBMS;

IT Consultant (Contracted to client from IT industry), New York City, NY, USA (90% remote), 04/2000 - 06/2000

Built a listings management application for a real estate agency. Utilized MivaScript, dBase DBMS.

IT Consultant (Contracted to client from travel industry), New York City, NY, USA (90% remote), 02/2000 - 04/2000

Delivered 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;

IT Consultant (Contracted to client from media industry), New York City, NY, USA (75% remote), 12/1999 - 12/1999

For a major Polish-American daily newspaper, customized the original Miva Merchant e-commerce system to create an online bookstore. Utilized MivaScript, dBase DBMS;

IT Consultant (Contracted to client from fitness industry), Burke, VA, USA (100% remote), 08/1999 - 12/1999

Produced 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 (Advertising industry), 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 (Internet Service Providers industry), 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/)