ALEX JOSEPH BERGMAN

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Skills

Languages:	Java, C++, Python, PHP, SQL, JSP/JSTL, HTML, JavaScript (JQuery), CSS, XML, JSON, German
Cloud:	Azure, PCF, Azure ServiceBus
Frameworks:	Spring, Spring Boot, Struts, Tiles, Hibernate, Bootstrap, MVC
Networking:	HTTP, REST, SOAP, MQTT, AMQP, TCP/IP, UDP, CAN
Database:	MySQL, Oracle, PL/SQL, Microsoft SQL Server
Server:	Linux, Windows, Apache Tomcat, JBoss, MAMP, WAMP
OS:	Windows, Mac, Linux (Ubuntu, Arch, Mint, Raspbian)
Tools:	Git, Subversion, Intellij, Eclipse, Gradle, Ant, Maven, Android Studio, PHPStorm, XCode, RaspberryPi

Experience

Ford Motor Company (TekSystems Inc.) July 2018 – Present
Connected Vehicle Platform & Products
Full-Stack Engineer

- Developed, tested, and maintained a B2B API used by Ford's external business customers that involves receiving, storing, and delivering telematics data from vehicles (Java, Spring Boot, Microsoft Sql Server, JSON, Azure, PCF)
- Developed, tested, and maintained a notification service to instantly deliver status notifications to external business customers (Java, Spring Boot, Azure ServiceBus, PCF)
- In-vehicle testing and debugging of the full B2B product involving configuring and flashing embedded modems firmware using CAN tools and receiving, storing, analyzing, and delivering telematics data
- Designed and developed a Testing Framework that utilizes test hardware to test data being streamed from a vehicle's TCU module (Java, Spring Boot, Python, RaspberryPi, Azure EventHub)
- Agile development process

CNSI (Client Network Services Inc.) May 2015 – July 2018
Software Engineer

- Developed, tested, and supported a client facing site for analyzing a large volume of system analytical data (Java, Spring, Struts, Oracle DB, PL/SQL, JBoss, HTML/CSS/JavaScript)
- Developed and supported a REST and SOAP web service application to automate the tracking and notification of compliance of several hundred service-level agreements (Java, Spring, Oracle DB, REST, SOAP, Apache CXF)
- Designed, developed, tested, deployed, and supported an internal operations portal site to eliminate paper processes and automate an approval workflow (Java, Spring MVC, Hibernate MySQL, Apache Tomcat, Linux Server, HTML/CSS/JavaScript)
- Designed, developed, tested, deployed, and supported an internal financial management portal to phase out outdated excel processes (Java, Spring MVC, Hibernate, MySQL, Apache Tomcat, Windows Server, HTML/CSS/JavaScript)
- Mentored and trained interns

MSU Senior Capstone Project   Fall 2015 Senior Year
East Lansing, MI
- Partnered with Ford Motor Company on a project to build a Connected Vehicle Protocol Test Harness and Evaluation Tool for comparing raw performance of M2M protocols
- Designed and developed a modular test harness to run on simulated TCU module hardware that would allow for any M2M protocol to be tested – developed MQTT, AMQP, and RESTful HTTP components to plug into test harness
- Setup RabbitMQ message broker on Windows Server 2012 to be messaged by test harness
- Created web interface for analyzing aggregated and averaged transmission data
- Co-lead a team of 5 students

MSU IT Services   September 2014 – May 2015
East Lansing, MI
User Interface Developer
- Front-end development on several widely used student account applications
- User Acceptance Testing of several applications

Education
Michigan State University   September 2012 – May 2016
East Lansing, MI
Bachelor of Science in Computer Science
Cognate: Business

Personal Projects
- www.ajbergman.com - My personal website
- www.fortyeight.club - A complete social network. The backend is PHP in an MVC design, with a MySQL database (decommissioned)
- TheseBeats App – A social music sharing Android app (decommissioned)