Jacob Anderson

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Education

University of Nebraska-Lincoln, Peter Kiewit Institute	Omaha, NE
BS Computer Engineering, Mathematics Minor	August 2010 - May 2015

Experience

NTT — Omaha, NE
Software Engineer II — August 2017 - Present

- Design, document, implement and maintain the in-house customer portal application. Technology stack included Primefaces and Java Server Faces front-end, Spring framework, Hibernate ORM talking to a SQL relational database on the back end. Experience with Kubernetes and Docker containers in AWS running simultaneously across multiple regions across the globe. Experience using relation databases such as Oracle, SQL Plus, PL/SQL

- Development of automation test software and mentoring the manual testing team with maintenance of developed test. Selenium, TestNG, Guice Dependency Injection technologies. Design, document and implement JUnit test with Spock and Groovy testing frameworks

- Experience with React applications backed by an in-house Restful API interface.

Braden-Anderson Engineering — Omaha, NE
Embedded Systems Engineer — June 2016 - Present

- Printed circuit board design used in automotive lighting applications (exterior tail lights)

- C and C++ microcontroller firmware development with communication over Bluetooth and WiFi wireless interfaces to mobile applications written in Flutter

Technical Support, Inc. — Omaha, NE
Software Engineer Intern — Jan 2013 - Oct 2014

- Embedded software design, testing, and implementation

- Developed a bootloader for a Texas Instruments design used in automotive applications

- Maintained and designed tools for inventory system based on feedback from manufacturing workers requirements and requests for improvements

Skills

Kubernetes:	Docker container management across multiple regions
Automation Test Development:	Selenium + Test NG frameworks for front-end automated testing
Java Web Application Development:	HTML, CSS, Javascript, Hibernate, Spring, Spring Session, SQL
3rd Party API Integration:	Seamless integration with 3rd party APIs

Projects

3rd Party Compliance Report API Integration *Java, Postman, Spring Dependency Injection, OAuth 2.0, Jaspersoft, Java/J2EE Technologies, JDBC, Log4J, JUnit*
Leveraged a 3rd party HTTP API using OAuth 2.0 security standard to generate and fetch security-related reports in PDF format. The company's portal application was tasked to generate a report instantaneously and await completion or setup scheduling of said report to run periodically.

Automation Testing Project Design and Implementation *Java, Selenium, TestNG, Guice*
Lead the design of automation project infrastructure and execution to perform Regression and Smoke testing the front-end Java and React portal application interfaces and unerlying functionality. I chose to use Google's Guice dependency injection framework to clean up source code and make commonly used properties readily accessible and easy for the testing team to understand.

Control System Design with Configuration via Cross Platform Mobile Application
Platformio, Arduino Bootloader, Expressif ESP32 toolkit
Design of a printed circuit board used to drive LED lighting panels in a modular system design. The control board logs critical system transactions and errors that are reported back to the Flutter-based mobile application on either iOS or Android. The user is also able to customise the LED patterns and lighting preferences based on their input via the mobile application.