

Alex Land

Software Systems at Simon Fraser University

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Software Skills

- Java (Android, SparkJava)
- Javascript (Vue.js, React)
- Git/Gerrit & JIRA
- C (Embedded Linux)
- MySQL, SQL Server
- HTML & CSS (Bootstrap)
- Bash & command line tools
- MacOS (10.9, 10.10, 10.11)
- Linux (Ubuntu, CentOS)

Work Experience

Agile Developer Intern - SAP Canada

May 2015 - December 2015

SAP Lumira

- Worked with Java (back-end) and Javascript (front-end) to develop a data visualization and analysis tool called SAP Lumira.
- Fixed bugs involving multiple areas of the product including the Compose and Share Room.
- Developed a feature (Page Size and Zooming for the "Stories" feature) from start to finish, including planning tasks, working on development, finding and fixing bugs, creating a test plan, and executing multiple testing cycles.

SAP Cloud for Analytics

- In October, transitioned to developing a cloud-based SaaS application called SAP Cloud for Analytics, written in Javascript on top of SAP's Hana Cloud Platform.
- Co-lead the implementation of the Export to PDF feature, which converted Stories to a PDF file using jsPDF with custom plugins. This process included incepting development tasks, developing the feature, fixing bugs, writing a test plan, and creating automated integration and unit tests.

DevOps Intern - Appnovation Technologies

May 2014 - August 2014

- Maintained internal and external web servers (development, staging and production), allowing for smooth code transfers between branches with minimal downtime.
- Improved server administration efficiency with Ansible by writing scripts to set up and upgrade servers, resulting in greatly improved creation times for servers.
- Worked with the internal ticketing system, assisting employees with technical issues in a fast and efficient manner, minimizing downtime due to technical difficulties.

Community Experience

Intern Community Co-Chair - SAP Canada

May 2015 - December 2015

- Co-lead the Intern Community, the umbrella community of the three Intern committees (Newsletter, Career Development and Social), coordinating with committee leads and facilitating meetings.
- Lead an organizing team to plan SAP Canada's first Intern Hackathon, and participated in the event to create an Android app prototype that matches employees together to meet for coffee.
- Co-planned SAP North America's first Charity Hackathon for the company's Month of Service initiative, recruiting both full-time employees and interns to help develop solutions for technical problems presented by charities, ranging from mobile apps to analytical dashboards and reports.

Projects

RenewPass

Personal Project

- Android app to renew a student's UPass with a tap. Students enter their school account credentials, and RenewPass automates the renewal process by visiting the UPass website and requesting the UPass. Development emphasis placed on simplicity and clean Material Design.
- Released on the Play Store to multiple 5 star reviews, with over 50 downloads in the first day. The app is also open source, available on Github under the MIT License.

Vancouver Racquets Club Ladder Application

Class Project

- Web app to track the club's mixed doubles badminton ladder, including ladder rankings, group generation and group result input with ladder ranking regeneration. Front-end uses Vue.js with Material Bootstrap, and the back-end is a Java application using SparkJava and Hibernate backed by MySQL.

Embedded OBD Project

Class Project

- Embedded Linux C application running on a BeagleBone Green that queries car data (including RPM, speed, throttle position, fuel level, and engine run time) over OBD and broadcasts over Bluetooth to an Android companion app, which displays the data in real time.
- Worked on the serial communication module. The app interacts over serial with the ELM327 chip in an OBDII to USB cable that connects the BeagleBone to the car.

Education

Simon Fraser University - Software Systems Major (Bachelors of Science)

2013 - Present

- Software Systems is a variation of Computing Science, with a focus on application of programming skills and techniques, resulting in a more practical learning experience.