

Bryan Lou

SOFTWARE ENGINEER

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Skills

Programming Java, C/C++, JavaScript, Python, Ruby, Go

Frameworks React Native, Django, Node.js, Express, MeteorJS, Selenium

Tools Linux, Git, Vim, PostgreSQL, Webpack, Android Studio, Scrum

Experience

Siemens Canada

Vaughan, ON

PRODUCT MANAGER INTERN

May 2017 - Aug 2017

- Product lead for the MindSphere OS and a security appliance product. Investigated various IPS/IDS technologies.
- Ran network tests on encrypted tunnels to analyze traffic performance. Identified issues and drove resolutions for them
- Responsible for strengthening computer security and privacy using network utility tools
- Conducted detailed data analysis using SQL and used insights for business and product planning

Khan Academy

Mountain View, CA

SOFTWARE ENGINEER & DATA SCIENTIST

Sept 2016 - Dec 2016

- Re-architected the course authoring page front-end and optimized data flow between components, reducing total rendering time by 95%
- Developed and maintained major features using React and Fluxible for partner administrator tools and course authoring
- Optimized components states and action dispatches to improve performance and eliminate concurrency related bugs
- Worked on new partner institution authoring endpoints in Scala and Naptime

Blue Coat Systems

Waterloo, ON

FULL STACK DEVELOPER

Jan 2016 - Apr 2016

- Developed and continuously deployed features for a front-end UI redesign, written in React and the Flux architecture
- Extended the Django backend API to support new frontend features and a feature flipper prototype
- Increased frontend test coverage to 96% by writing tests in Mocha.js and Selenium

Projects

StockFlux

Guelph, ON

NODE.JS, MONGODB, REACT, SASS

Jun. 2016 - PRESENT

- A stock market platform where users can monitor everything from real time stock quotes to customized advanced charts
- Created specifications for API endpoints and the database model
- Designed and built a responsive UI using React Native

TwitchStats

Waterloo, ON

EXPRESSJS, GOOGLE CLOUD PLATFORM

Sep. 2016 - Oct. 2016

- Aggregates and displays analytic dashboard of streamers using Twitch API
- Developed a strong understanding of Search Engine Optimization (SEO) and IRC through building and growing this website

Piller

Waterloo, ON

JAVA, ANDROID STUDIO

Sep. 2016 - Oct. 2016

- A medication reminder android application with personal log-in credentials and built-in notification system
- Real-time integrated scheduling automation system that keeps track of users' daily medication intake

Education

University of Waterloo

Waterloo, ON

B.C.S. IN HONOURS COMPUTER SCIENCE

Sept. 2015 - Apr. 2019

- Dean's Honours List (Terms 1B, 2A, and 2B)
- President's Scholarship (June 2015)