Bryan **Lou**

SOFTWARE ENGINEER

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Skills

Programming	Java, Javascript, Python, Node.js, C/C++, Scala, MatLab
Frameworks	React, Django, Express, Redux, JQuery, HTML5, Selenium, Meteor
Tools	Git, Vim, Unix, MySQL, PostgreSQL, Android Studio, WebPack, XCode, Apahe JMeter

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-architectured the course authoring page front-end and optimized data flow between components,reducing total rendering time by 95%
- Developed and maintained major feautres 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

Battlegrounds Unknown
Waterloo, ON

NODE.JS, MONGODB, REACT, SASS — *Jun. 2016 - PRESENT*

- A game set in an alternate world where players collaborate to eradicate enemies
- Created specifications for API endpoints and the database model
- Designed and built a responsive UI with an SVG-based map using React and SVG.js

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)