Boris Lin

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EDUCATION

University of Waterloo · 3B · Bachelor of Computer Science *September 2013 - April 2018*

- Operating System · Algorithms · Database · Compiler · OOP · Computer Organization and Design

WORK EXPERIENCE

Samsung Research America *January - April 2016 · Mountain View, CA*
Software Engineering Intern

- Did full stack web development on creating an enterprise web application called Electric Commander (EC) Monitor to enhance EC with analytical and statistical features using Symfony, Python, Perl, MySQL, jQuery and React.js
- Created EC as well as employee performance charts for the management team by analyzing and visualizing EC's database using D3 and Highcharts.js
- Developed Live Job Build Tracker, a real time job performance monitoring web application, which is used by the entire infrastructure team with more than **100** employees every day

Vena Solutions *May - August 2015 · Toronto, ON*
Software Development Intern

- Built DevOps tools using Ansible that facilitate product deployment and maintenance
- Set up Percona XtraDB Cluster on EC2 and Softlayer using Ansible and MySQL to improve database performance and reliability by 5%
- Developed software tools in Ansible and Java to effectively catch memory errors in back-end in both single-thread and multi-thread context
- Contributed 7 front-end functionalities to Vena Cloud web application built in Backbone.js
- Improved RESTful API test coverage for back-end by 10% via Postman using JavaScript

Genesys Laboratories Canada Inc. *August - December 2014 · Markham, ON*
Quality Assurance Intern

- Carried out both automated and manual load and scale tests on media control platform for call center solutions using Bash, Perl and CGI
- Implemented automatic reporting system in C++ that provides platform and test performance analysis to team leads

PROJECTS

WatPool · Swift, Cocoa Touch, Google Maps API *April 2016 - Present*

- iOS app designed for Waterloo residents who share or provide ride to others to Greater Toronto Area, Hamilton, Niagara Falls and more with automatic matching

WatNotify (watnotify.ca) · Ruby on Rails, Python, jQuery, PostgreSQL *April 2016 - Present*

- Lightweight course enrolment notification tool for University of Waterloo students which helped more than **50** students enrol in their desired class quickly with minimum efforts within **24** hours of launch
- Voiced out more than **100** students' demand for popular courses and present analyzed and visualized back-end data to University of Waterloo to request for increase in class size

Optometry Data Analysis System · Django, jQuery, MySQL *September - December 2015*

- Created a web application called ODAS in collaboration with Ziquan (Zack) Wang and Prof. Frank Tompa that helped better store and manage optometric records and increase efficiency in generating optometric reports by 10 times

Mini-Twitter · Ruby on Rails, Bootstrap, PostgreSQL, TDD, Agile *June 2015 - March 2016*

- Completed self-learning Ruby on Rails tutorial by Michael Hartl and developed Mini-Twitter, an open source Twitter-style social networking web application

Quadris · C++ · OOP · X11 *May - August 2014*

- Designed and developed a desktop Tetris-like game called "Quadris" in both plain text and GUI