

BORIS LIN

3B Computer Science, University of Waterloo

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WORK EXPERIENCE

Samsung Research America

January - April 2016 · Mountain View, CA

Software Engineering Intern

- Independently did full stack web development and data visualization on creating analytical and statistical web apps for infrastructure using Symfony, Python, Perl, MySQL, jQuery and React

Vena Solutions

May - August 2015 · Toronto, ON

Software Development Intern

- Built DevOps tools using Ansible that facilitate product deployment and maintenance
- Independently set up Percona XtraDB Cluster on EC2 and Softlayer using Ansible and MySQL to improve database performance and reliability by 5%
- Developed software tools using Ansible and Java to effectively catch memory errors in back-end in both single-thread and multi-thread context
- Contributed front-end functionality to Vena Cloud web app built in Backbone.js
- Improved 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
- Developed automatic reporting system in C++ that provides platform and test performance analysis to team leads
- Implemented Perl CGI scripts to perform required tasks via HTTP requests with browser

PROJECTS

Bookkeeper · Rails, jQuery, React, PostgreSQL

March 2016 - Present

- Open source modern bookkeeping web application created for personal and friends' need

Optometry Data Analysis System · Django, jQuery, MySQL

September - December 2015

- Worked with Ziquan (Zack) Wang and Prof. Frank Tompa to create a web application that helps better store and manage optometric records and produce reports

Personal Website · HTML, CSS, Jekyll

July 2015

- Integrated HTML template and Jekyll blogging system

Mini-Twitter · 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 app

WLP4 Compiler · C++ · Finite-state Machine

January - April 2015

- Designed and implemented a full WLP4 (subset of C++) compiler (scanner, parser, error-checker & MIPS-code-generator) in C++, translating WLP4 into MIPS assembly language

Quadris · C++ · OOP · X11

May - August 2014

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

EDUCATION

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

Selected Coursework:

- Operating System · Algorithms · Database · Compiler · OOP
- Combinatorics & Optimization · Economics · Financial Accounting