

# BORIS LIN

3A – Computer Science – University of Waterloo

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## SUMMARY OF SKILLS

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- Programming skills: C/C++, Python, Pascal, Scheme
- Web development: Ruby on Rails, Django, PHP, HTML5, CSS3, JavaScript, MySQL, PostgreSQL, MVC, RESTful API
- Industrial experience with DevOps (Ansible), Git, Unix Command line, Postman, AWS, Vim, TDD, Agile

## WORK EXPERIENCE

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### Vena Solutions Canada Inc.

May 2015 - August 2015

Software Engineering Intern

Etobicoke, ON, Canada

- Involved in the entire software development process including design, implementation, deployment and maintenance in **agile startup environment** and **test driven development**
- As main developer, worked closely with CTO and built **DevOps** tools 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% without breaking current database management system
- Created email notification system using Ansible to catch build failures and alert key people in the team
- Developed software tools using Ansible and Java to effectively catch memory errors in the **back-end** in both single-thread and multi-thread context, and dump the memory to S3 bucket for detailed analysis
- Automated Jenkins job creation by converting Jenkins jobs from XML format to DSL Groovy script
- Made several changes and bug fixes for **front-end** built on Backbone.js
- Improved API test coverage for back-end by 10% via Postman using JavaScript

### Genesys Laboratories Canada Inc.

August 2014 - December 2014

Quality Assurance Intern - Genesys Media Control Platform Team

Markham, ON, Canada

- 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 CGI scripts in Perl that interact with browser to perform required tasks via HTTP requests

## PROJECTS (GitHub:borislin)

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### BOOKeeper | November 2015 - Present

- Open source modern bookkeeping web app built on Ruby on Rails / HTML5 / CSS3 / PostgreSQL

### Optometry Data Analysis System | September 2015 - Present

- Worked with Zack (Ziquan) Wang and Prof. Frank Tompa to create both the front-end and back-end of a web app using Django and MySQL to help store and manage optometric records, and produce reports.

### Personal Website | July 2015

- Open source personal website built on Ruby on Rails / HTML5 / CSS3 / JavaScript / Jekyll

### Twitter-style Social Networking Web App | June 2015 - Present

- Open source Twitter-style social networking web app built on Ruby on Rails / HTML5 / CSS3 / PostgreSQL

### WLP4 Programming Language Compiler | January 2015 - 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 | May 2014 - August 2014

- Designed and deployed a desktop Tetris-like game called “Quadris” in both plain text and GUI in C++, OOP and X11

## EDUCATION

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### University of Waterloo

Expected April 2018

3A, Bachelor of Computer Science

- Courses Taken: Operating System, Algorithms, Database, Compiler, OOP, Combinatorics & Optimization