Ernest **Wong**

✉ e56wong@uwaterloo.ca | ⌂ ernest-wong.me | ⌗ ernestwong | ▣ ernestwong222

Skills

Programming	Ruby, Python, Java, Scala, JavaScript, C/C++, Bash, SQL, HTML/CSS, LaTeX
Tools	Git, Linux, Android, Vim, tmux
Frameworks	Ruby on Rails, BackboneJS, AngularJS, Django, Node.JS, Thrift, Finagle, Tesseract, OpenCV
Data	MySQL, Cassandra, PostgreSQL

Experience

PagerDuty — *San Francisco, CA*
SOFTWARE ENGINEERING INTERN — *Spring 2016*
- Developed core recruitment feature on PagerDuty's platform across the web and mobile stack.
- Maintained highly available Scala services powering the core portions of PagerDuty's notification service.
- Implemented metrics for critical service to improve visibility and allow engineers to quickly identify issues with the service.
- Involved with product & design decisions and participated in high customer impacting discussions.

Inkling — *San Francisco, CA*
SOFTWARE ENGINEERING INTERN — *Fall 2015*
- Developed core Python API service, consumed across all Inkling products.
- Built Inkling's Backbone digital content reader app with Django middleware.
- Implemented key features in Inkling cross-title library search functionality.
- Improved digital content reader's custom smart word-highlighting algorithm to greatly improve user experience.

Boltmade — *Waterloo, ON*
FULL STACK DEVELOPER INTERN — *Winter 2015*
- Built multiple entire web applications with Ruby on Rails and AngularJS that were shipped to production.
- Developed both large scale applications and small-scale web applications from ground-up.
- Contributed to weekly sprint planning meetings with clients and discussed design implementations.

Projects

OCR Sudoku Solver
HTTP://GITHUB.COM/ERNESTWONG/SUDOKUSOLVER
- Android application which allows user to takes picture of Sudoku puzzle and provides solution using OpenCV and TesseractOCR.

Connectd
HTTP://GITHUB.COM/ERNESTWONG/CONNECTD
- Ruby on Rails mobile web application that allows user to search for other users and send invitations on all major social media platforms with a single button.

MuseDreams (IoT Hardware Hack)
HTTP://GITHUB.COM/ERNESTWONG/MUSEDREAMS
- "Internet of Things" hackathon project using Muse headband that detects when user is about to fall asleep and makes adjustments to external surroundings such as dimming lights and lowering volume on devices.

Project Euler
HTTP://GITHUB.COM/ERNESTWONG/PROJECTEULER
- Solutions to 40-50 math problems found on http://projecteuler.net. Solutions written in C, C++, C#, and Java.

Education

University of Waterloo — *Waterloo, ON*
3B COMPUTER ENGINEERING — *2013 - 2018*
- Operating Systems, Compilers, Computer Networks, Database Systems, Algorithms & Data Structures