Ernest Wong

http://ernest-wong.me
e56wong@uwaterloo.ca

LANGUAGES

- Ruby
- Python
- Java
- Scala
- JavaScript
- C/C++
- C#
- HTML/CSS
- SQL

TECHNOLOGIES

- Git
- Bash
- Linux
- Ruby on Rails
- Django
- BackboneJS
- Cassandra
- MySQL
- Android

EDUCATION

University of Waterloo
Computer Engineering
Waterloo, ON
2013 - 2018

CONTACT

linkedin.com/in/ernestwong222
e56wong@uwaterloo.ca
http://ernest-wong.me
github.com/ernestwong

EXPERIENCE

BOLTMADE | Full Stack Developer
Jan 2016 – May 2016 | Waterloo, ON

- Developed new recruitment feature on PagerDuty's main application across the web and mobile stack.
- Maintaining highly available micro-services powering the core portions of PagerDuty's notification service.

PAGERDUTY | Software Engineering Intern
May 2016 – August 2016 | San Francisco, CA

- Developed new recruitment feature on PagerDuty's main application across the web and mobile stack.
- Maintaining highly available micro-services powering the core portions of PagerDuty's notification service.

BOLTMADE | Full Stack Developer
Jan 2015 – May 2015 | Waterloo, ON

- 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.

PAGERDUTY | Software Engineering Intern
May 2016 – August 2016 | San Francisco, CA

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- Maintaining highly available micro-services powering the core portions of PagerDuty's notification service.

PROJECTS

SUDOKUSOLVER | Sudoku Puzzle OCR Cam Solver
http://github.com/ernestwong/sudokusolver

- Android application which takes picture of Sudoku puzzle and provides solution.
- Uses OpenCV computer vision library and image processing to identify puzzle and Tesseract OCR to identify numbers.
- Customized image processing algorithms—used a combination of OpenCV functions and custom algorithms.

MUSEDREAMS | An IoT hack with Muse headband
http://github.com/ernestwong/musedreams

- Hardware hack using Muse headband that detects when user is about to fall asleep and makes adjustments to external surroundings
- Analyzed EEG data and developed algorithm that recognizes user's sleepiness using state machine
- Python server which interprets EEG data and posts state to Rails API for Android application

PROJECT EULER | A collection of logic/coding puzzles
http://github.com/ernestwong/projecteuler

- Solutions to 40-50 math problems found on http://projecteuler.net. Solutions written in C, C++, C#, and Java