

Ernest Wong

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Skills

Programming Python, Scala, Java, Ruby, JavaScript, C/C++, SQL
Frameworks Play, Ruby on Rails, Android, BackboneJS, Django, Node.JS, Tesseract, OpenCV
Data MySQL, Cassandra, PostgreSQL

Experience

Coursera

SOFTWARE ENGINEERING INTERN

Mountain View, CA

Jan 2017 - April 2017

- Developed scalable services for Coursera's Enterprise team using Scala, Cassandra, MySQL, and Kafka.
- Built notification system to remind users to enroll in courses, resulting in an increase in user engagement metrics.
- Developed peer recommendation system which allows users to recommend courses to other learners.

PagerDuty

SOFTWARE ENGINEERING INTERN

San Francisco, CA

May 2016 - Aug 2016

- Developed features for PagerDuty's Incident team using Scala, Cassandra, MySQL, Ruby on Rails, and Android.
- Maintained highly available Scala services responsible for aggregating and reliably delivering notifications to users.
- Built new incident management feature on PagerDuty's web and mobile platform.
- Implemented metrics system to improve visibility of critical system, allowing engineers to quickly identify issues.

Inkling

SOFTWARE ENGINEERING INTERN

San Francisco, CA

Aug 2015 - Dec 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.

Boltmade

FULL STACK DEVELOPER INTERN

Waterloo, ON

Jan 2015 - April 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.
- Led weekly sprint planning meetings with clients and discussed design implementations.

Projects

OCR Sudoku Solver

[HTTP://GITHUB.COM/ERNESTWONG/SUDOKUSOLVER](http://github.com/ErnestWong/SudokuSolver)

- Android application which allows user to take picture of Sudoku puzzle and provides solution using OpenCV and TesseractOCR.

MuseDreams (IoT Hardware Hack)

[HTTP://GITHUB.COM/ERNESTWONG/MUSEDREAMS](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](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

4A COMPUTER ENGINEERING

Waterloo, ON

2013 - 2018

- Adaptive Algorithms, Distributed Systems, Operating Systems, Compilers, Computer Networks