# **Ernest Wong**

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Skills

**Programming** Python, Scala, C++, Java, Ruby, JavaScript, SQL

**Frameworks** Play, Ruby on Rails, Android, BackboneJS, Django, Node,JS, Tesseract, OpenCV

**Data** MySOL, Cassandra, PostgreSOL

Experience\_

**Facebook** Seattle, WA

SOFTWARE ENGINEERING INTERN (INFRASTRUCTURE)

Sept 2017 - Dec 2017

- Developed and deployed an indexer service which listens to our Zookeeper ensemble and provides visibility into total Zookeeper size data using C++.
- · Developed system which detects growth of Zookeeper ensemble and provides breakdown of growth by size of Zookeeper nodes.

• Implemented clustering algorithm to group Zookeeper nodes with similar names to provide a useful report of total Zookeeper size usage.

Coursera Mountain View, CA

SOFTWARE ENGINEERING INTERN

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** San Francisco, CA

SOFTWARE ENGINEERING INTERN

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** Waterloo, ON

FULL STACK DEVELOPER INTERN

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

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

#### **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

**4A COMPUTER ENGINEERING** 

September 2013 - May 2018

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