# Ernest **Wong**

✉ ernestwong@fb.com | 🏠 ernest-wong.me | ⬤ ernestwong | ⬤ ernestwong222

## Skills

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

## Experience

### Facebook
*Seattle, WA*

SOFTWARE ENGINEERING INTERN (INFRASTRUCTURE) — *Sept 2017 - Dec 2017*

- Developed and deployed an indexer service which watches for changes and provides data regarding size of each Zookeeper node in Zookeeper ensemble using C++.
- Implemented clustering algorithm to group Zookeeper nodes with similar names to provide a useful breakdown of total Zookeeper size usage.
- Provided automatic detection of size growth of total Zookeeper ensemble which creates a report and notifies teams responsible for the growth.

### Coursera
*Mountain View, CA*

SOFTWARE ENGINEERING INTERN (BACKEND) — *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 (FULL-STACK) — *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
*San Francisco, CA*

SOFTWARE ENGINEERING INTERN (FRONT-END) — *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*

SOFTWARE ENGINEERING INTERN (FULL-STACK) — *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*

B.A.SC COMPUTER ENGINEERING — *September 2013 - May 2018*

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