

# Raymond Chan

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<http://raychan3.github.io/>

## Education

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### University of California, Berkeley

08/2013 – 12/2017

- GPA: 3.77.
- B.A. Computer Science and B.S. Business Administration.

## Languages and Skills

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- **Expert:** Python, Git, Java
- **Proficient:** SQL, UNIX, Guice, FlumeJava, MapReduce, Spring Framework, Hibernate, Flask, SQLAlchemy, C, HTML, CSS.

## Professional Experience

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### Google Inc. - Software Engineering Intern

05/2017 – 08/2017

- Redesigned country specific payments schema, analyzed column redundancy in a distributed database, and consolidated such data to an updated local document table.
- Implemented and optimized MapReduce pipeline to join and emit ORM entities to avoid unnecessary database queries.
- Analyzed and refactored legacy test code by creating common utility functions and local test files resulting in a net removal of 4500 lines of code.
- Utilized MapReduce to transform local invoice data into tables that merchants use.

### ZapLabs LLC – Software Engineering Intern

06/2016 – 08/2016

- Integrated payment, subscription, and webhook services for a RESTful web application on the Service and Controller layers utilizing Spring Framework.
- Optimized Hibernate ORM libraries and Spring Batch Jobs.

### UC Berkeley – Undergraduate Student Instructor

01/2016 – Present

- Efficient Algorithms and Intractable Problems (Fall 2017 Head TA, Spring 2017) and Structure and Interpretation of Computer Science (Fall 2016, Spring 2016).
- Taught discussion and laboratory sections consisting of ~20-40 students and held exam review sessions consisting of ~200 students.
- Authored discussion handouts and laboratory exercises with other staff members.
- Recorded exam and discussion walkthrough videos.

## Projects

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### Predicting 90-Day Implied Volatility via Neural Network (Python, Tensorflow)

03/2017

- Implemented pipeline to gather equities' historical data and volatilities.
- Configured neutral net regression to predict securities' 90-day implied volatilities.

### OK Server; CS Assignment Manager (Python, Flask, SQLAlchemy)

08/2016

- Integrated Lab Assistant enrollments on the admin dashboard.
- Added ability to publish and hide assignment scores using WTForms.

## Leadership

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### ACACIA Fraternity – President of California Chapter

12/2014 – 12/2015

- Cleared \$120,000 of accounts receivable between the chapter and the property management company and managed a \$40,000 budget by generating expense reports.