Raymond Chan

[Redacted]   raymondchan243@gmail.com
[Redacted]   http://raychan3.github.io/

Education

University of California, Berkeley   08/2013 – 12/2017
- GPA: 3.77.
- B.A. Computer Science and B.S. Business Administration.

Languages and Skills

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

Professional Experience

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

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

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.