

Stanley Kwong

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Education

University of California, Berkeley. Class of 2018.
B.A. **Computer Science**. Major GPA: **3.62**

Coursework

- Operating Systems (in progress)
- Computer Security (in progress)
- Efficient Algorithms and Intractable Problems
- Machine Structures
- Data Structures and Algorithms
- Discrete Mathematics and Probability Theory
- Structure and Interpretation of Computer Programs

Experience

Cyanogen – *Software Engineering Intern* June 2016 – August 2016

- Designed and wrote a lightweight, scalable backend service which handles all push notification traffic on client devices, provides abstraction for push notifications and serves as a single endpoint for multiple internal backend services to interact with devices
- Utilized asynchronous and non-blocking HTTP and I/O APIs provided by Vert.x to process network requests and read/writes in the data access layer (Cassandra). Heavily leveraged the Vert.x Core and Java Future libraries, maintaining a clean, flat structure in my code (especially async code)
- Processed large amounts of account data (~20GB) stored in Cassandra tables in <10 seconds using Spark jobs running on Amazon EMR. Spark jobs were authored in Scala using Zeppelin, a UI interpreter

Ryde – *Software Engineer (contractor)* October 2015 – present

- Began as member of founding development team to prove out concept
- Integrated a secure payment system (Stripe, Braintree) with a peer-to-peer marketplace – processed over \$11,000 as of August 2016
- Designed and implemented the backend infrastructure and APIs (Nodejs, Expressjs)
- Set up storage and deployment services (AWS EC2/S3/Elastic Beanstalk)
- Wrote security rules for our Firebase data store
- Built the MVP web app, featuring an instant messaging interface and Firebase Auth (Angular, Firebase)

Organizations

Innovative Design – *Member, Web Dev Tier* February 2016 – present

- Led a workshop on the basics of web development by designing and deploying a static portfolio website in under an hour, emphasizing material design
- Create full-stack websites as per other school organizations' requests (React, Redux), featuring mainly blogs and galleries

Skills

Programming: Java, JavaScript, Python, C

Frameworks: Vert.x, Angularjs, Nodejs, Expressjs

Services: Amazon S3 / EC2 / Elastic Beanstalk / Elastic MapReduce

Databases: Apache Cassandra, Firebase Storage

APIs: Stripe, Braintree, Firebase Cloud Messaging, Firebase Auth

Interests: Computer security, concurrency, distributed systems, networks, tech T-shirts, singing, Smash