

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)
- Internet Architecture (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 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 thousands of 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 a UI based interpreter, Zeppelin

Ryde – *Software Engineer* 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)
- 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: AngularJS, Nodejs, Expressjs, Vertx, Django, React, Redux, jQuery

Services: AWS S3/EC2/Elastic Beanstalk/EMR, Firebase Cloud Messaging/Storage/Auth, Stripe, Braintree

Other: Cassandra, Redis, OpenTSDB

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