

# Stanley Kwong

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## Education

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

## Coursework

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

## Experience

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**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 (Amazon EC2/S3/Elastic Beanstalk)
- Built the MVP web app, featuring an instant messaging interface and Firebase Auth (Angular, Firebase)

## Extracurricular

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**UC Berkeley** – *Lab Assistant, Comp. Architecture* August 2016 – present

- Provide support for students in a lab setting to clarify conceptual questions about lab assignments, projects, and homework and debug C and assembly code

**Innovative Design** – *Web Development Team* February 2016 – present

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

## Skills

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**Languages:** 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