

# Samuel Kim

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<http://github.com/samhykim>

## EDUCATION

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**University of California, Berkeley, Berkeley, CA**

May 2016

*Candidate for Bachelor of Science in Electrical Engineering and Computer Science*

*Cumulative GPA: 3.9/4.0*

*Relevant Coursework:* Structure and Interpretation of Computer Programming, Data Structures, Great Ideas in Computer Architecture, Signals and Systems, Discrete Mathematics and Probability Theory, Operating Systems, Efficient Algorithms and Intractable Problems

## WORK EXPERIENCE

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**Software Engineer Intern, Google**

May 2014 – August 2014

- Designed and created an activatable UI metrics tool with a simple pluggable interface for Ads applications using AngularDart
  - tool records and reports client-side page information
  - tool records Angular specific information; i.e: cache sizes, slowest digests
- Developed strong relationships with mentors, hosts, and team members

**Software Engineer Intern, Apptimize**

June 2013 – August 2013

- Was hired as the first intern for their startup
- Began as a frontend developer and implemented much of the web APIs for the company's dashboard in AngularJS
- Was responsible for the implementation and design of user' account settings and management
- Created necessary database constraints using postgresQL and wrote the majority of their j-unit tests

**EE20 Teaching Assistant/Reader Coordinator**

Jan 2014 – May 2014

- Lead discussion and lab sections for 30 students in our lower-division Signals and Systems course
- Was responsible for writing up lecture notes, discussion worksheets, and homework solutions in Latex
- Managed all of the readers who grade homeworks and provided feedback to improve the course throughout the semester

## PROJECTS

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- Sudoku Solver App:* Constructed an algorithm that solves sudoku puzzles; Turned the product into a deployable app (Java, Android)
- Automated Door Lock:* Simplified access to my dorm room by programming an Arduino to scan an ID card via RFID reader. Extended the project to unlock my door via Bluetooth. (Arduino)
- Personal Website:* Developed a personal website (AngularJS, AngularFire, HTML, CSS)
- Multi-thread OS:* Implemented a thread system for a basic OS called Nachos by creating tools such as locks, semaphores, and condition variables to solve synchronization problems; Was responsible for keeping the team together and managing our code base by teaching proper version control techniques (Java, Git)
- Image Processing:* Wrote an efficient algorithm that makes use of OpenMP and SSE in order to process images by method of convolution (C)

## SKILLS AND AWARDS

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**Proficient in:** Java, Python, AngularJS, Git, UNIX, HTML5, CSS

**Experience in:** C, Dart, postgresQL, Android, Hadoop

- HKM member at UC Berkeley
- UC Berkeley Regents' and Chancellors' Scholar, 2012
- National Merit Scholar, 2012
- National AP Scholar, 2011