

# Samuel Kim

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## 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, Introduction to Artificial Intelligence, Machine Learning, Data Science, Random Processes, Databases, Computational Photography

## WORK EXPERIENCE

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**Software Engineer Intern, Google** June 2015– August 2015

- Implemented a full pipeline that tracks and publishes metrics as part of the throttling system in the Ads Budgeting team
  - Wrote binaries in C++ that were run daily on jobs managed by Google's machine cluster management system to extract, transform, and load metric prediction scores
  - Pipeline is easily configurable for adding new metrics to an internal dashboard with minimum setup
- Explored use of machine learning tasks to update weights associated with these metric predictions

**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
  - tool is used by two Google Ads applications that use AngularDart

**Software Engineer Intern, Aptimize** June 2013 – August 2013

- Hired as the first intern for their startup
- Developed and implemented many of the web APIs for the company's dashboard in AngularJS and Java
- 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
- Assisted in 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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- Showcase Lineup App:* Developed a web app that solves a constraint satisfaction problem (CSP) to minimize conflicts among participants in a showcase lineup (Heroku, Flask, AngularJS)
- 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)
- Techcrunch Web Crawler:* Web crawled through 10000s of techcrunch articles in order to evaluate and rank the top trending tech companies, according to the contents of techcrunch (Scrapy, iPython, PageRank)
- Personal Website:* Developed a personal website (AngularJS, AngularFire, HTML, CSS)

## SKILLS AND AWARDS

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**Proficient in:** Python, Java, AngularJS, Git, Heroku, UNIX, HTML5  
**Experience in:** C++, C, Dart, PostgreSQL, Hadoop, Spark, Android, CSS

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