Simon Deng

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Education

University of California, Berkeley   *Aug 2015–May 2019 (expected)*
- pursuing **B.S.** in **Electrical Eng. & Computer Science**, **B.A.** in **Cognitive Science**, GPA: **3.8**
- **Coursework**: Data Structures, Algorithms, Operating Systems, Artificial Intelligence, Machine Learning, Deep Neural Networks, Natural Language Processing

Work Experience

Software Engineering Intern at **Google**   *May 2018–Aug 2018*
- Analyzed **GCE Storage performance data** to undercover 10 different issues and anomalies for further investigation
- Tuned **regression analyzer** parameters to significantly reduce false positives
- Implemented test method parameterization in **Python** to better manage thousands of performance tests
- Redesigned **fio performance testing suite** to reduce number of tests by 40%, while still ensuring coverage of all important variables and adding new tests to verify advertised benchmarks

Technical Program Manager Intern at **Google**   *May 2017–Aug 2017*
- Evaluated various database technologies and infrastructure to design a metrics pipeline for chip development
- Unified various chip design metrics in **Protobuf** schemas to be stored in a **Spanner** database via a **Python** API
- Designed a dashboard for TPMs and hardware engineers to track metrics across projects

Software Engineering Intern at **WalmartLabs**   *May 2016–Aug 2016*
- Implemented optimizations to a Grafana plugin including implementing caching in **JavaScript** and **AngularJS**
- Developed a OneOps pack for Grafana in **Ruby** to enable automatic cloud deployment and management
- Developed a Graylog plugin in **Java** to integrate with Walmart internal alerting tools

Software Engineering Intern at **ZootRock**   *May 2014–Jul 2014*
- Redesigned web app using **HTML5**, **CSS3**, **JavaScript**, and **AngularJS**.

Software Engineering Intern at **Shocase**   *Jun 2013–Aug 2013*
- Developed an interactive donut chart using **JavaScript** and **D3.js** to display on user profile pages.

Leadership Experience

President at **Homestead Programming Club**   *Jun 2014–Jun 2015*
- Designed interactive code-based workshops, expanding topics to include full stack **web** development and **Android** apps.
- Built an automatic code grading system in **PHP** using the Ideone SOAP API and **AJAX** for online challenge problems.

Projects

Kaggle Submissions – https://www.kaggle.com/simond
- Top 15% of Kaggle submissions for datasets as part of Berkeley's **CS 189** course, ranked **4th** in the class in **spam detection**

Multiplayer Snake – http://snakes.simondeng.me/
- A WebSocket multiplayer snake game built in **JavaScript** using **Node.js**, **Express**, and **Socket.IO**.

Additional personal projects available on personal website (http://simondeng.me) and on GitHub (http://github.com/simonsdeng)

Honors & Awards

HKN Member – UC Berkeley EECS Honor Society   *Eta Kappa Nu, Sep 2016*
Ford: Best OpenXC Hack – http://challengepost.com/software/exo-wheel   *Cal Hacks, Oct 2014*
Best Pebble Hack – http://challengepost.com/software/pebblix   *HSHacks, Mar 2014*
Mobile Application Development – 1st Place National Champion   *FBLA, Jul 2014*