

Siddharth Girkar

(408) 472-8297 | smgirkar@berkeley.edu | github.com/sidgirkar | sidgirkar.wordpress.com

EDUCATION

University of California, Berkeley

B.S., Electrical Engineering & Computer Science

Anticipated Graduation: May 2019

GPA: 3.8

Activities & Honors: Tau Beta Pi, Eta Kappa Nu, Indus, Dean's Honors List

Coursework: CS 61A: *The Structure & Interpretation of Computer Science*, CS 61B: *Data Structures*, CS 61C*: *Machine Structures*, CS 188*: *Artificial Intelligence*, EE 16A/B: *Designing Information Devices & Systems*, MATH 54: *Linear Algebra & Differential Equations*, CS 70*: *Discrete Math & Probability Theory* * = Ongoing

SKILLS

Languages: Java, Python, C, iPython, MIPS, HTML, CSS, JavaScript, Jade

Libraries: jQuery, Chart.js, Google Charts

Platforms & Frameworks: Node.js, Express, Energia, MARS

EXPERIENCE

Software Engineering Intern, PayPal

May – August 2016

- Developed a Node.js/Express application to process and interpret customer feedback for 15+ teams
- Updated and improved an existing administrative tool to incorporate access modification and employee insertion/deletion capabilities
- Created the UI for an internal data processing application integrated with Slack

Software Engineering Intern, Omlet

June – August 2014

- Designed and tested applications for Omlet Chat, Omlet's messaging platform
- Wrote a text manipulation app using HTML, CSS, JavaScript, and jQuery
- Spoke with 75+ students at Stanford LEAD about the benefits of learning computer science

RESEARCH

Berkeley Emergent Space Tensegrities Lab

September 2016 - Present

- Undergraduate researcher on the TT4-Mini development team, backed by NASA Ames Research Center
- Designing a non-intuitive structure to facilitate rover landings on various surfaces
- Developing software and circuits to govern movement and calibration

Berkeley Institute for Data Science

January – May 2016

- Worked as a member of the Text Thresher project, which uses crowdworking to generate machine learning algorithms that improve traditional content analysis
- Developed a training layer over the interface with Intro.js and ReactJS
- Analyzed and annotated 100+ articles concerning Occupy events across America
- Tested the application to isolate errors and optimize code

PROJECTS

Text Editor

- Plain text editor supporting open/save, keyboard shortcuts, font resizing, scrolling, window resizing, navigation, and undo/redo functionality, developed with Java
- Built with components from JavaFX library, and analyzed files via java.io package

SIXT33N

- Mobile robot that recognizes and responds to voice commands with 95% accuracy
- Designed a control system between wheels to maintain balance and uprightness
- Tested and coded PCA classifications to assign commands to specific movements