Akilesh Bapu

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University of California, **Berkeley**
Electrical Eng. Computer Science

Expected Graduation: 2018
Leadership Scholar GPA: 3.7

Courses

- CS61A: Programming Structure
- CS61B: Data Structures
- CS70: Discrete Math and Probability
- EE16A, EE16B: Designing Devices
- IEOR 185: Accelerating IP Innovation

Technical Skills

Proficient	Frequently Used
- Swift/Obj. C	- SQL, Lisp
- Python	- Javascript,
- Java	- CSS, HTML

Activities

Berkeley HyperLoop Team 9/15 - Present
Signals and Controls Engineer
- Finalist (12th out of 120) awarded by Space X Director and Elon Musk
- Working on controls for levitation system

Experience

Apple Inc **Summer 2016**
Software Engineering Intern
- Incoming summer intern on Localization and Release Team

Berkeley Mobile iOS 9/15 - **Present**
iOS Developer - Objective C
- Part of team that built and improves Berkeley's campus application with over ***7,000 users***
- Most Recent Impact: Implemented More Robust Routing with Live Buses, Lyft Integration, Emergency Reporting

CS 61A Lab Assistant 1/16 - 5/16
Academic Intern
- Held lab sections and office hours for **30+ Students**
- Taught students fundamentals of programming structures in Python, Scheme, SQL through intensive projects, homework, and labs.

UNT Dept. Material Science 1/14 - 6/15
Research Assistant
- Developed model for 30% lighter metals that prevent bone implants from stress-shielding by introducing niobium nano rods to porous copper
- Research Awards:
  - **Intel ISEF Finalist**
  - Exxon Mobile State Sci Fair 2nd Place
  - Fort Worth Regional Sci Fair Grand Prize

Projects

Delphi 1/16 - Present
Co-Founder
- Patent Search and Documentation Tool identifies concepts and similarity using Machine Learning
- HTML5 + Python
- **Berkeley SkyDeck** Backed

Casa 12/15 - Present
iOS Developer
- Built robust Amenity/Space Sharing App in Swift
- Challenges include security, large amounts of data, and speed
- **Runner-Up**, Cal Venture Spotlight
- **People's Choice**, Innovate@Berkeley

Sixteen 5/16
- Voice Controlled Drone Car
- PCA Classification, Designed and Implemented Low-Pass Filter for Voice
- Used Controls and a transistor circuit to build turning and acceleration.

Text-Editor 3/16
- Built basic text editor from scratch with a focus on speed, includes undo/redo, resizing, and other basic features using Java FX Library

BearMaps 3/16
- Built Mapping API from scratch
- Ultra-Fast Array Based Implementation of QuadTree for rasterizing and Trie for routing

SpeedUp 10/15
- Vibrates at the right pace to get to locations on time - Swift, Arduino

Dyslexia Reader Chrome 10/15
- With over **1000** users, uses dyslexia research findings to improve text reading