Akilesh Bapu

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Education

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

Expected Graduation: 2018
Leadership Scholar GPA: 3.7

- CS61A: Programming Structure
- CS61B: Data Structures
- CS61C: Computer Architecture
- CS70: Discrete Math and Probability
- CS188: Artificial Intelligence
- CS294: Lean Launchpad
- EE16A, EE16B: Designing Devices
- EE120: Signals and Systems
- IEOR 185: Accelerating IP Innovation

Technical Skills

Proficient
- Swift/Obj. C
- Python
- Java

Frequently Used
- SQL, Lisp, C
- Javascript,
- CSS, HTML
- Mips Assembly

Experience

Apple Inc — Summer 2016
Software Engineering Intern
- Implemented Xcode Interface Builder Feature that uses heuristics to reduce internationalization related issues by 50%, saving engineers hundreds of thousands of hours.
- 1 of 7 interns selected to present project to Craig Federighi, VP of Software Engineering at Apple.

Berkeley Mobile iOS — 9/15 - **Present**
Lead
- Lead team of 4 engineers that built and improve Berkeley's campus application with over ***10,000 users***
- Most Recent Impact: Implemented More Robust Routing with Live Buses, Lyft Integration, Emergency Reporting System

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

Delphi — 1/16 - Present
Co-Founder
- Patent Opportunity Identification Application
- Language Modeling Algorithm
- HTML, JS, CSS, Python
- **Berkeley SkyDeck** Backed
- 1 of 4 Berkeley Lean Launchpad Teams

CASA

Casa — 12/15 - Present
iOS Engineer
- Built robust Amenity/Space Sharing App in Swift in App Store Currently
- 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