

Akilesh Bapu

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Education

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

Expected Graduation: Fall 2018
Leadership Scholar GPA: 3.61

- 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
- Web App Dev
- Mips Assembly

Other

- Gave Guest Lecture on “**Developing iOS Apps in Industry**” at iOS DeCal

Projects



Delphi

Co-Founder

1/16 - Present

- Patent Opportunity Identification Application
- Language Modeling Algorithms
- Python, AWS, Spark
- **Berkeley SkyDeck & House Fund** Backed
- 1 of 4 Berkeley Lean Launchpad Teams
- Interviewed 100 Customers



Casa

iOS Engineer

12/15 - Present

- 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

Experience



Apple Inc

Software Engineering Intern

Summer 2016

- 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 total interns selected to present project to Craig Federighi, VP of Software Engineering at Apple.



Berkeley Mobile iOS

Lead

9/15 - Present

- 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

Academic Intern

1/16 - 5/16

- 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

Researcher

1/14 - 6/15

- 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

Home Touch

11/16

- Smarthome Fingerprint Personalization
- Python grayscale intensity algorithm + Biometrics lib to match fingers
- Web Preferences Manager
- Alexa updates smart home based on preferences

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.

BearMaps

3/16

- Built a Mapping API
- 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