

# Akilesh Bapu

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## Experience

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

Expected Graduation: 2018  
Leadership Scholar GPA: 3.7

## Courses

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

## Technical Skills

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

## Projects



DELPHI

**Delphi**

*Co-Founder*

1/16 - Present

- Patent Opportunity Identification Application
- HTML, JS, CSS, Python
- **Berkeley SkyDeck** Backed



**Casa**

*iOS*

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



**Apple Inc**

*Software Engineering Intern*

**Summer 2016**

- Worked on Xcode Interface Builder Feature that uses heuristics to reduce internationalization related issues by 50%, saving engineers hundreds of thousands of hours.
- Selected to present project to Craig Federighi, VP of Software Engineering at Apple.



**Berkeley Mobile iOS**

*Lead- Objective C*

**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**

*Research Assistant*

**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

**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

**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