Akilesh **Bapu**

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University of California, **Berkeley**
Electrical Eng. Computer Science
Minor: Industrial Engineering and Operations Research

Freshman, Expected Graduation: 2018
Leadership Scholar *GPA: TBD*

Courses by Summer 2015:
- CS61A**:** Structure, Interpretation of Computer Programs
- CS61B: Data Structures, Advanced Programming
- CS70: Discrete Math and Probability
- EE16A, EE16B: Designing Devices, Info Systems
- IEOR 185: Social Entrepreneurship Challenge Lab
- EE: Digital Logic Design,Computer Org(Assembly Lang.)

Technical Skills

Proficient Skills
- Swift/ Obj. C
- Python

Skills Frequently Used
- JS, Node.JS
- PHP, MySQL

Other Interests and Skills
- Algorithms, Design
- Hardware (Arduino)

Experience

Berkeley Mobile iOS 9/15 - Present
iOS Developer
- Part of team that created and improves Berkeley's campus application with over ***5,000 users***
- Provides dining hall menus, gym hours + densities, transit options, and library hours
- **My Impact:** Recreated UI and implemented custom BearTransit Public Transit options.

Berkeley HyperLoop Team 9/15 - Present
Internal Systems Engineer
- Goal: Create the safest, most comfortable pod interior for SpaceX's supersonic vacuum travel system
- **My Impact:** CAD-ed (Computer Aided Design) seats with recliner like orientation and programmed hydraulic suspension to reduce G-Force by 3x on passengers in case of 760mph decelerations.

UNT Dept. Materials Science Research 1/14 - 6/15
Student Researcher
- Developed model that can make any metal 30% lighter without losing strength to prevent bone implants from stress-shielding. Used LAMMPS, UNIX scripts: nano-porous copper with niobium.
- **My Impact:** Led project, validated this model through 1.5 years of computational simulations, synthesized a real-life Zinc-Oxide model, presented discoveries as Intel ISEF Finalist

Game And Learn Tech Non-Profit 3/14 - 8/15
Co-Founder
- Objective is to create implement previous mental disability research into free easily accessible apps.
- **My Impact:** Made graphics, promotional videos, co-created and promoted Dyslexia Reader Chrome Extension, which has over ***1000 active users***.

Projects

allpay **10**/15
Money 20/20
- Secure Clientside Payment Gateway that works alongside shopping systems and accepts any mobile wallet. Python, Ionic, Raspberry Pi w/ NFC, Bluetooth LE, WiFi

SpeedUp **10**/15
CalHacks 2.0
- Haptic Feedback to shoes if your running late to class using Arduino w/Bluetooth LE, Swift iOS App, Here Maps, Apple Mapkit, real-time distance + pace calculation

Alleviate **3**/15
HackDFW Most Technologically Innovative Award
- JS WebApp uses Leap Motion IR Sensor, notifies you of incorrect hand position, finger extension to prevent tendonitis.