Sumukh Shivakumar

sumukhshiv@berkeley.edu | 813-618-1708
Github: sumukhshiv | sumukhshiv.github.

Education

University of California, Berkeley, Berkeley, CA   2015 – Present
      B.S. Electrical Engineering & Computer Science
Relevant Coursework:
- EE/CS: Python/Scheme/SQL Programming, Data Structures, Machine Structures, Signals/Systems
- Math: Probability Theory and Discrete Math, Multivariable Calculus, Linear Algebra & Diff. Equations

Skills

Proficient in Java, Python, Android Development, C, SQL, Scheme, MIPS, HTML/CSS; **Familiar** with Perl, JQuery, Swift, JavaScript
Technologies: Git, Adobe CC, Android Studio, Xcode, IntelliJ

Experience

Verizon Communications Inc: Software Developer Intern in Network Systems   2017
- Designed/Developed customizable user behavior dashboard for the Dynamic Network Manager
- Patented a Machine Learning Algorithm to optimize 5G Antenna placement (Patent being processed)

Mobile Developers of Berkeley: Android Developer   2017 - Present
- Designed/Developed & Published Android App *Preserve* with three teammates
- Design and develop Android applications at UC Berkeley's Premier Mobile Development Organization

UC Berkeley IEEE: Technical Operations Officer   2017 - Present
- Maintained/cleaned servers throughout the UC Berkeley EECS Department. Solved any computer/server related technical problems across campus

Stanford University: Undergraduate Researcher   2016 - 2017
- Undergraduate Researcher continuing to work under Dr. Yu Sun, automating IADL cooking tasks.
- Focusing on Video Event/Object detections for network training

Robot Perception and Action Lab: Undergraduate Researcher   2016
- Worked under USF's Dr. Yu Sun, to design software programs that intelligently automate and learn cooking tasks. Focused on a Functional Object Oriented Network & used NLP and WordNet to optimize robot's task awareness
- Worked on Computer Vision projects to further enhance automatic understanding of cooking events using YouTube cooking videos

UC Berkeley EECS Department: Lab Assistant   2016
- Assisted over 20 students a week through Python projects/lab assignments, with office hours & one-on-one tutoring

Projects

Preserve (Java/Android): Grocery tracker that notifies users when food items expire using OCR technology
- Gained deep experience with Google Mobile Vision API (OCR), Firebase database, UI/UX

MDB Socials (Java/Android): Helps students plan/host social events & see who's interested in attending
- Gained great experience with Firebase Database/storage/authentication, Recycler Views, UI/UX

YouTube Alert (JS/Web): Presently working on a Chrome extension that notifies and links to newly uploaded YouTube subscriber videos.
- Gained experience with YouTube API, JavaScript, HTML, & CSS.

Apache Spark Video Compression: Implemented a scheme using Discrete Cosine transform to perform Video Compression
- Gained experience with Apache Spark & OpenCV

Honors

UC Berkeley – College of Engineering – Dean's Honor's List
1st Place - Verizon Company Wide Intern Hackathon 2017
Mu Alpha Theta – National Math Honor Society – National Scholarship Recipient
Academy of Applied Sciences Distinguished Scholar – Published paper on Nanomechanic drug delivery to the brain