SUMUKH SHIVAKUMAR

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Education

University of California, Berkeley – Electrical Engineering and Computer Science, B.S.   **May 2019**

- ❖ **EE/CS:** Python/Scheme/SQL Programming, Data Structures, Machine Structures, Signals and Systems
- ❖ **Math:** Multivariable Calculus, Linear Algebra & Differential Equations, Probability Theory and Discrete Math
- ❖ **Other:** Web Design, Mechanical Physics, Perspectives in Engineering, Social Implications of Computers

Work Experience

Verizon Communications Inc.   **Summer 2017**

- ❖ Joining the Network Systems Team this summer as Software Developer Intern

Stanford University – Undergraduate Researcher   **2016-Present**

- ❖ Continuing to work under Dr. Yu Sun, automating IADL cooking tasks.
- ❖ Focusing on Video Processing for Functional Object Oriented Network training data optimization

Robot Perception and Action Lab   **2016**

- ❖ Worked under USF's Dr. Yu Sun, now at Stanford, to design software programs that intelligently automate and learn IADL tasks.
- ❖ Focused on a Functional Object Oriented Network for cooking and used Natural Language Processing 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   **2016**

- ❖ Assisted during lab & office hours for Berkeley's intro CS course taught in Python, Scheme, & SQL

XPRIZE After Earth Challenge   **2013**

- ❖ Invited as Brand Ambassador to launch Sony Pictures, XPRIZE Robotics Competition in partnership with After Earth Film
- ❖ Launched the competition alongside Will and Jaden Smith at the Film's Miami Premier

Projects

YouTube Alert

- ❖ Presently working on a Google Chrome extension created with YouTube API, JavaScript, HTML, & CSS.
- ❖ User dependent software that notifies and links to newly uploaded subscriber videos.

sumukhshiv.github.io

- ❖ Personal website developed from scratch using HTML, CSS, & JQuery

ROOMiES – Roommate Locator

- ❖ Presently working on an Android Application used to connect roommates with Google's Maps API, Cloud client, & Firebase

Apache Spark Video Compression

- ❖ Implemented a scheme using Discrete Cosine transform to perform Video Compression using Spark, OpenCV

Skills

- ❖ **Proficient:** Java, Python, C, SQL, Scheme, MIPS, Git, JavaScript, HTML, CSS
- ❖ **Familiar:** Perl, JQuery, Android, Adobe CC, Android Studio, Swift, Xcode, IntelliJ

Honors / Awards

- ❖ UC Berkeley – College of Engineering – Dean's Honor's List
- ❖ Mu Alpha Theta – National Math Honor Society – National Scholarship Recipient
- ❖ Academy of Applied Science Research Scholar for Publishing Nanomachines Cancer Treatment Paper