Prokkawn Majumdar

prokkawn@berkeley.edu | (504) 258-7455 | https://github.com/prokkawn |
linkedin.com/in/prokkawn-majumdar-487242227/

EDUCATION

University of California, Berkeley *Graduation Date: May 2024*

B.S. in ***Electrical Engineering & Computer Sciences (EECS)*** **GPA: 3.50**

Relevant Coursework: Data Structures, Discrete Math and Probability Theory, Computer Architecture, Designing Information Devices and Systems I, Designing Information Devices and Systems II, Microelectronic Devices and Circuits

Skills: Python, Java, C, SQL, RISC-V, SolidWorks, Autodesk, Microsoft Office Suite

RELEVANT EXPERIENCE

Lab Vantage Duarte, CA

C4I Research Internship *May 2021 – Aug 2021*

- Utilized machine learning to extract keywords from medical datasets used in natural language processing (NLP)
- Implemented sentiment analysis on online medical data sets

REU Internship Pomona, CA

Research Intern *June 2019 – Sep 2019*

- Utilized a simple webcam for obstacle detection and subsequent avoidance maneuvers
- Designed container for onboard computer that could easily attach to octocopter
- Successfully ran fly tests where octocopter detected and avoided a tree in its flight path

REU Internship Pomona, CA

Research Intern *May 2018 – Aug 2018*

- Integrated facial recognition software with remote collision avoidance algorithms for disaster relief and rescue missions
- Programmed neural networks for facial recognition software
- Designed and 3D printed a payload release mechanism on SolidWorks

Publication/Poster Presentation Pasadena, CA

Research Intern *June 2018 – May 2020*

- Helped summarize research and findings in "Autonomous Navigation of UAVs in the Indoor Environment for Search and Rescue Missions" along with Sania Esa, Tristan Cady, and Felipe Borja, under the supervision of Dr. Bhandari, Dr. Aliyazicioglu, Dr. Raheja, & Dr. Tang
- Presented at Southern California Conference for Undergraduate Research 2018 in Pasadena, CA

Teacher on PAPER Platform Online

One on One Tutor *Jan 2022 – Current*

- Teaching subjects ranging from Chemistry and Physics to all levels of Math, to students in middle and high school
- Went through training and integrated the Socratic teaching method into my sessions

TECHNICAL PROJECTS

Cal Sol Solar Car Team

- Designed and optimized solar array to go on next generation car Excalibur
- Preparing top shell and electrical leads for solar array attachment

Build Your Own World

- Programmed a random 2D map generator and implemented game functionality such as character movement and end goals
- Implemented a UI and dynamic memory features where previous steps and gameplay would be saved and could be loaded in

INTERESTS

Music, Chess, Soccer, Basketball, Robotics, Teaching, Hiking