

Lisa Verma

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EDUCATION

Bachelor of Engineering in Computer Engineering

September 2020 – June 2024

UNIVERSITY OF CALIFORNIA-DAVIS / DAVIS, CA

- Major: Computer Engineering

SKILLS

- Programming Languages: C/C++, C#, Python, HTML, CSS, JavaScript, SQL, Arduino.
- Frameworks/Technologies: Github, Angular, Node.js, React.js, MongoDB, Express.js, Docker, REST API
- Analog and Digital Systems, building circuits on breadboard and prototype board.
- Microsoft tools - Word, Excel, PowerPoint, etc.

EXPERIENCE

Machine Learning Research Assistant – Weimer Lab, UC Davis – Part time

October 2023 – June 2024

- Worked in Weimer Lab in the field of robotics to program a liquid handling robot named JANUS.
- Responsible for creating a YAML file to install the program HAWK and Kover.
- currently assist with managing data inventory, maintaining computer systems, overseeing data acquisition/analysis and assisting with review, documentation and setup of computational resources.

Undergraduate Researcher, UC Davis – Internship

April 2023 – June 2024

- Worked with a professor in the Electrical and Computer Engineering Department on Wearable Bio-Electronics for Health Monitoring
- Working with Designing of the PCB Board, Digital Signal Processing and App Development to monitor the electronic tattoo.

Lab Assistant, UC Davis – Part Time

October 2023 – June 2024

- Worked as a Lab Assistant for ENG100 – Electronic Circuits and Systems
- Answered students' questions in lab sessions, helping students with debugging circuits built on breadboards, debugging basic Raspberry Pi codes in Micro Python.

Computer Science Tutor UC Davis – Part Time

October 2023 – June 2024

- Worked as a computer science tutor for ECS 32A(Intro to Programming), ECS 170(Intro to AI) and ECS 171(Intro to Machine Learning)
- Answered student's questions in virtual sessions, helping students with debugging their code, etc.

Undergraduate Researcher, UC Berkeley - Fellowship

October 2021 -May 2022

- Worked in a research lab remotely at University of California Berkeley through the Artificial Intelligence Institute for Food Systems (AIFS) at UC Davis - optimizing a code about raytracing and solar panels for better performance.
- Was one of the 16 students to be selected and had to deliver a presentation in front of all the students and mentors towards the end of the fellowship.

LEADERSHIP

L'Space NPWEE Academy Program, NASA

January 2023 - May 2023

Events Director, Google Developer Student Club - Club Organization

October 2022 – December 2023

Secretary, IEEE - Club Organization

October 2022 – March 2024

Dance Stage Manager, Whole Earth Festival

January 2023 – May 2023

Finance Director, Davis Dhadkan - Club Organization

May 2022 – May 2023

PROJECTS

Brain Machine Interface - Machine Learning

- Collaborated within a team of four members to contribute to the development of a project centered on integrating EEG signal analysis for brainwave interpretation.
- Our work aimed to explore the potential of machine learning algorithms in decoding EEG signals for brain-computer interfacing applications, demonstrating a keen interest in advancing the frontier of neuroscience and technology integration.

Security System - Embedded Systems

- Created a security system which when detected motion prompted the user to type in a password which would unlock the device.
- Built the circuit using TI MSP432P board, DTMF tone generator to enable the password, REST API to send an email regarding the password changes and motion on the lock, and OLED for displaying the passwords.

Robot - Intro to Analog and Digital Systems

- Built a robot using Texas Instruments (TI RSLK Robot MSP 432P) and Code Computer Studio and a circuit containing a microphone on both prototype and breadboard along with coding for the movement of the robot and high pass and low pass filters in C.