

Yusuf Morsi

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Python, C++, JavaScript, MATLAB

EDUCATION

University of California, San Diego

Dec 2023 – Mar 2025

- **Machine Learning and Data Science (M.S.)**

University of California, San Diego

Oct 2020 – Dec 2023

- **Electrical Engineering B.S.**
 - **Specialization in Machine Learning and Controls**

University of California, San Diego

Sep 2020 – May 2021

- **Business Management (Certification)**
- **Front-End Web Development (Certification)**
- **iOS Programming (Certification)**

Jan 2020 – Sep 2020

Jan 2019 – May 2019

WORK EXPERIENCE

Software Engineer Intern, CarsXE API

June 2022 – June 2023

- Assisted in full-stack web development (**Vue/Nuxt.js**, **Next.js**, **Sentry.io**); developed **pip package** for company API
- Led intern license plate recognition software implementation [**Python (TensorFlow, YOLOv4, OpenCV, Tesseract OCR)**]

Software Engineer Intern, UCSD Mobile Systems Design Lab (Dr. Sujit Dey)

June 2022 – Sep. 2022

- Assisted in the development of iOS (**Swift**), Android [**Java, Retrofit, JavaScript (Axios)**] apps that enable engagement between ML blood pressure platform, patients, and physicians.
 - Recipient of UCSD Summer Research Internship Program

Research Intern, [UCSD ECE Department](#)

- **Mobile Systems Design Lab** (Dr. Sujit Dey) June 2022 – Sep 2022
 - Assisted in the development of iOS (**Swift**), and Android [**Java, Retrofit, JavaScript (Axios)**] apps that enable engagement between ML blood pressure platform, patients, and physicians.
- **DigiHealth Lab** (Dr. Edward Wang) April 2021 – May 2022
 - Developed I2C communication code with C++, utilized Eagle to design circuit schematics, and soldered in a lab setting.

PROJECTS

Hate Speech NLP Analysis

Dec 2022

- Tackled online hate speech by utilizing NLP methods to detect and analyze hate speech on a new streaming platform
 - Wrote **Python** code for **TF-IDF vectorization** and a **decision tree** hate speech detection model for on-time delivery.

Drowsiness Detection with OpenCV and Arduino

Mar 2021

- Increased student productivity by partnering with a colleague to program software to provide a buzzing alert when detecting user drowsiness and eye-closing.
 - Used **Python (OpenCV)** to write eye movement detection code, **Arduino** for hardware, and **LaTeX** for paper.

LEADERSHIP / AWARDS

- **2nd Place, [UCSD HARD Hack](#) (April 2023)**
 - Won **second place** out of 23 teams in hardware hackathon by collaborating with 4 colleagues to develop IoT prosthetic
- **Scholarship for Electrical Engineering, [ACE Mentor Program](#) (2019, 2020, 2023)**
- **Technical Chair, [IEEE UCSD](#) (Oct. 2022 – June 2023)**
 - Responsible for organizing technical workshops and events for the second-largest IEEE student branch in the US.
- **CS Team Lead, [CS Foreach](#) (Oct. 2021 – Feb. 2023)**
 - Led other UCSD students to teach a high school student how to create a **full-stack website**.
- **Mentor, [UCSD ECE Undergrad Student Council](#) (Oct. 2021 – Jan. 2023)**
 - Met weekly with first-year ECE students at UCSD to advise them and answer their questions about ECE/ML.
- **CSE Outreach, [Eta Kappa Nu \(HKN\)](#) (Mar. 2022 – Dec. 2022)**
 - Visited inner-city San Diego schools to teach K-12 students computer science and engineering fundamentals.
- **Winner of Civic Engagement Category, [SD Hacks](#) (April 2022)**
 - Won **first place** in division out of 30 teams by working with 3 colleagues to develop **site** that matches clubs with sponsors.
- **Student Spotlight, [UCSD Extended Studies](#) (July 2020)**
- **Winner of FRC (First Robotics Competition) San Diego Regional (2017)**
 - Ranked 14 out of 66 teams in San Diego regionals and proceeded to the world championship in Houston, TX.

MORE INFORMATION

- Fluent in both English and Arabic
- Experienced with **ML**, **APIs**, **project management**, **web/app development**, **MATLAB**, **LTspice**, **Eagle**, **Vivado**