Python, C++, Java, C

# **EDUCATION**

## University of California, San Diego, Bachelor's of Science

- Electrical Engineering B.S. (Oct. 2020 June 2024)
  - Depth in Machine Learning and Controls
  - o Minor in Business
- Relevant Coursework: Rapid Python Design; Probability and Stats; C Programming; Computer Organization; Digital Systems; Linear & Nonlinear Optimization; Linear Control System Theory; Python for Data Analysis; Race, Gender, and Computing

#### **UC San Diego Extended Studies, Certifications**

- Business Management Certification (May 2021)
- Front-End Web Development Certification (Sep. 2020)
- iOS Programming Certification (May 2019)

## **WORK EXPERIENCE**

### Machine Learning Intern, Advanced Al Solutions

Sep. 2022 - Dec. 2022

- Will develop fire detection and thermal imaging software for autonomous firefighting drones.
  - o Using Python (TensorFlow, Keras)

# Software Engineer Intern, CarsXE API

June 2022 - Sep. 2022

- Focusing on front-end web development and machine learning for car data.
  - o Using HTML, CSS, JavaScript, JSON, Python

## Research Intern, UCSD Mobile Systems Design Lab (Dr. Sujit Dey)

June 2022 - Sep. 2022

- Focusing on R&D of iOS, Android apps that enable engagement between ML blood pressure platform, patients, and physicians.
  - o Using Swift, Java, HTML, CSS, and JavaScript

#### Software Engineer Intern, Project YLLOW

Oct. 2021 – June 2022

- Developed a social platform where people are only able to add people that they meet in real life by **scanning an NFC chip** o Used **Java, React-Native, Swift, and Firebase**.
- Undergraduate Researcher, UCSD DigiHealth Lab (Dr. Edward Wang)

April 2021 - May 2022

Wrote C++ code for I2C communication, designed circuits on Eagle, and soldered them.

# **PROJECTS**

# Drowsiness Detection with Python (OpenCV), Arduino, LaTeX

Feb. 2021 – March 2021

- In this <u>project</u>, a colleague and I programmed software that detects when the user becomes drowsy and starts to close their eyes before alerting them with a buzzing noise until they open their eyes again.
  - o My work includes writing Python code that detects eye movement, and writing a report on the project using LaTeX.

#### HC-SR04 Ultrasonic Security Sensor with MATLAB, Arduino, Eagle, Fritzing

Nov. 2020 – Dec. 2020

- Two other ECE students and I used MATLAB, an Arduino MEGA, and circuit components to create a <u>security device</u> that detects movement and determines whether it's caused by a living being.
  - o I wrote code for the **Arduino/C++ code**, the **Eagle** file, and created the **Fritzing** file for this project.

## LEADERSHIP / AWARDS

- Winner of SD Hacks Civic Engagement Category, April 2022
  - Won first place in category out of 30 teams in a hackathon at UCSD by working with three colleagues to develop a <u>site</u> that matches student organizations with sponsors using HTML, CSS, and JavaScript.
- CS Foreach Early Start Mentor (2021 Present)
  - Working with other UCSD students to teach a high school student how to create a website with **HTML**, **CSS**, **and JS**.
- UCSD ECE Undergrad Student Council Mentor (Oct. 2021 Present)
  - I meet weekly with first-year ECE students at UCSD to advise them and answer their questions about ECE/ML.
  - Two of my mentees used my advice to land internships for the summer of 2022
- Student of Distinction / Student Spotlight, UCSD Extended Studies, July 2020
- Scholarship for Electrical Engineering, ACE Mentor Program, May 2019, May 2020
- President of high school's Architecture, Construction, and Engineering Club in senior year (Member: 2016-20)

## MORE INFORMATION

- Fluent in both English and Arabic
- Holds <u>Project Management</u> certification
- Experience with machine learning, web and app development, LTspice, Eagle, Vivado, Fritzing, Multisim