

Yusuf Morsi

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EDUCATION

University of California, San Diego

2024 - 2025

M.S. Machine Learning and Data Science

University of California, San Diego

2020 - 2024

B.S. Electrical Engineering

EXPERIENCE

Targimo

San Francisco, CA

CEO and Chief ML Engineer

Fall 2023 - Present

- Leading B2B startup that provides business solutions from data science insights
 - * Attending meetings with venture capital firms
- Managing a team of three ML engineers, spearheading ML R&D
 - * Leveraged PyTorch, CoreNLP, etc. to architect a market analysis tool, decoding media to fuel data-driven strategies

Cisco

San Jose, CA

Hardware and Data Science Intern

Summer 2023

- Automated analysis process by analyzing and clustering device failure data with H2O.ai and Python, significantly reducing troubleshooting time and operational costs.
- To lower carbon usage at Cisco, I developed a dashboard and presented it live to the entire company on CiscoTV

Southwest Airlines

Dallas, TX

Software Engineer Intern

Spring 2023

- Conducted anomaly detection to detect unusual traffic volume, suspicious IPs, and network latency.
- Automated GTM workflows for Ansible Tower through full-stack development, achieving streamlined workflows.
- On intern team tasked with saving \$24M annually by launching discounting functionality on SWA's site rather than third parties (presented to Chief Information Officer)

CarsXE

Highland, MD

Software Engineer Intern

Summer 2022 - Spring 2023

- Led intern license plate recognition software implementation
- Developed full-stack web pages; Developed pip package for company API
- Refactored codebase from JavaScript to Typescript

UC San Diego ECE Department

San Diego, CA

Undergraduate Researcher

Spring 2021 - Fall 2022

Mobile Systems Design Lab (Dr. Sujit Dey)

- * Developed a script to automate the process of modifying and analyzing research experiments.

DigiHealth Lab (Dr. Edward Wang)

- * Developed I2C communication code with C++, utilized Eagle to design circuit schematics, and soldered in a lab setting.

PROJECTS

PCA for Image Classification

Machine Learning

- Authored MATLAB algorithm implementing PCA for image classification, improving accuracy through bespoke dimensionality reduction and optimal subspace selection strategies

Hate Speech NLP Analysis

Data Science

- 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

Design and Analysis of High-Precision Differentiator Circuit

Hardware Engineering

- Engineered a signal processing circuit, applying operational amplifier inverter configuration and innovative design principles
 - * Achieved time derivative of input with less than 20 μ s rise time and ensured output voltage overshoot did not exceed 15%

MISCELLANEOUS

Skills: Python, C/C++, MATLAB, TensorFlow, NLP, Pytorch, OpenCV, Java, Typescript, JavaScript, HTML/CSS, Flask, iOS & Android Dev, LaTeX, LTSpice, Vivado, Circuit Analysis

Languages: English, Arabic

More Info: 3x Hackathon Winner; Previous Technical Chair of IEEE UCSD; Was mentor for CSE and ECE at UCSD