

# Yusuf Morsi

ymorsi.com

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## EDUCATION

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### University of California, San Diego

2024 - 2026

*M.S. Machine Learning and Data Science*

### University of California, San Diego

2020 - 2024

*B.S. Electrical Engineering*

## EXPERIENCE

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### Targimo

San Francisco, CA

*CEO and Chief ML Engineer*

*Fall 2023 - Present*

- Leading B2B startup that provides business solutions from data science insights (i.e. attending meetings with VC firms)
- Directing development of 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*

- Automated GTM workflows for Ansible Tower through full-stack development, achieving streamlined workflows.
- On intern team tasked with saving \$24M/year by launching discounting feature rather using than third parties (pres. to CIO)

### CarsXE

Highland, MD

*Software Engineer Intern*

*Summer 2022 - Spring 2023*

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

### UC San Diego ECE Department

San Diego, CA

*Undergraduate Researcher*

*Spring 2021 - Fall 2022*

#### Mobile Systems Design Lab (Dr. Sujit Dey)

- Assisted in the full-stack development of iOS and Android apps that enable engagement between ML blood pressure platform, patients, and physicians.

#### DigiHealth Lab (Dr. Edward Wang)

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

## PROJECTS

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### 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

### Portfolio Website (ymorsi.com)

Software Engineering

- Solely developed portfolio website displaying my work, experience, and more

### Design and Analysis of High-Precision Differentiator Circuit

Hardware Engineering

- Engineered a signal processing circuit with operational amplifier inverter configuration (LTSpice, MATLAB, circuits)
  - Achieved time derivative of input with  $< 20 \mu\text{s}$  rise time and ensured output voltage overshoot didn't exceed 15%

## MISCELLANEOUS

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**Languages:** English, Arabic

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

**More Info:** 3x Hackathon Winner; Previous Technical Chair of IEEE UCSD; CSE and ECE Mentor at UCSD