

Min Aung Paing

626-493-8002 | mpaing@ucsd.edu | linkedin.com/in/min-aung-paing | github.com/MgMap

EDUCATION

University of California, San Diego (UCSD)

Bachelor of Science in Computer Science

GPA 3.93

Expected in Jun 2026

San Diego, CA

EXPERIENCE

Software Engineer Intern

University of Southern California (USC)

Jun 2025 - Present

Los Angeles, CA

- Developed an end-to-end deployment pipeline to run OpenVLA on a physical robot (**xArm7**), including real-time image preprocessing, model inference, and action execution
- Benchmarked OpenVLA performance in both **simulation** (LIBERO, SimplerEnv) and **real-world** zero-shot settings, analyzing the impact of environment familiarity on success rates
- Built and integrated a GELLO **teleoperation system** to enable efficient demonstration collection, and designed a modular data collection framework for OpenVLA fine-tuning

Machine Learning Intern

American Express

Aug 2024 - Dec 2024

Los Angeles, CA

- Collaborated with a team of 5 fellows and an Engineering Director to iteratively enhance data preprocessing, feature engineering, and model tuning for **high-accuracy PII (Personally identifiable information) detection**
- Developed and optimized a **hybrid entity recognition approach**, leveraging Regex, Named Entity Recognition (NER), and Large Language Models to enhance detection accuracy, and achieve over **90% precision** in identifying and redacting PIIs
- Utilized Microsoft Presidio and **spaCy model** for entity detection, integrating format-preserving encryption (FPE) to maintain data format for alphanumeric entities

Full-Stack Developer Intern

Think Round Inc

Jul 2024 - Oct 2024

Remote

- Managed the migration of Think Round's website from SquareSpace to a custom-built platform, enabling greater control over design, improving site performance, and simplifying maintenance
- Collaborated with designers to refine the UI/UX and develop the frontend using **React and Next.js**, enhancing responsiveness, enabling smoother animations, and creating an immersive interactive experience for virtual museum exhibits
- Built a **backend system using Node.js and Express with a MongoDB database**, facilitating dynamic content updates and improved scalability, while developing RESTful APIs to efficiently manage data flow between the frontend and backend

Mobile App Development Intern

Pasadena City College

Apr 2024 - Jul 2024

Pasadena, CA

- Collaborated with software engineering students and UX/UI designers to develop cross-platform iOS and Android college app, facilitating streamlined communication for **over 20,000 students** and multiple college departments
- Integrated SAML-based Single Sign-On (SSO) for secure and seamless user authentication, utilizing a custom Identity Provider (IDP) for enhanced security, reduce login friction, and improve user experience across various college services
- Developed and implemented key app features using **Angular and Ionic frameworks**; ensured efficient task tracking and project alignment through **Asana** for organized and timely project delivery

PROJECTS

CPP-ASM-Exam APP | ASM x86, C++, Cmake, Javascript, Electron

July 2024

- Built a **cross-platform C++ application** with an integrated **Electron front-end**, applying modular design principles for high performance and **portability across operating systems**
- Integrated a **native C++ compiler and ASMX86 runtime environment** using Monaco Editor and CMake, enabling **low-level code editing, compilation, and execution** within an isolated sandbox
- Implemented system-level process management and custom security hooks to restrict OS shortcuts and prevent unintended process termination ensuring stable runtime and controlled execution

TECHNICAL SKILLS

Languages: Python, Java, Ruby, Go, Rust, JavaScript, Typescript, C/C++, HTML/CSS, SQL, MongoDB

Frameworks/Tools: React, Ionic, Node.js, Tailwind, Azure, Git, Docker, Electron, Firebase, CUDA, Kubernetes

Libraries: PyTorch, TensorFlow, Scikit learn, pandas, Numpy, Matplotlib, Seaborn, Cython, FAISS