# CLAIRE SHEN

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## EDUCATION

**University of California, San Diego – Jacobs School of Engineering** **San Diego, CA**
*B.S. Artificial Intelligence* *September 2025 – Present*

- **Anticipated Graduation Date**: 06/29
- **Programming Languages & AI**: Java, C++, Python, C, HTML, CSS
- **AI:** Convolutional Neural Networks, Image Segmentation, Edge TPU, Raspberry Pi

## PROFESSIONAL EXPERIENCE

**Naval Surface Warfare Center Corona Rapid Prototyping Lab** **Camp Pendleton, Fallbrook, CA**
*SEAP Engineering Intern* *June 2025 – August 2025*

- Developed AI-enabled vehicle damage assessment app for Marines on base, with team of 4 interns
- Collected, cleaned, and labeled ~1,000 images of vehicle corrosion to create a custom dataset.
- Researched, built, and tested deep learning models for real-time image segmentation on Raspberry Pi and Google Edge TPU.

**Naval Surface Warfare Center Corona Rapid Prototyping Lab** **Camp Pendleton, Fallbrook, CA**
*SEAP Engineering Intern* *June 2024 – August 2024*

- Modeled and reverse-engineered vehicle parts in Fusion 360 and SOLIDWORKS for metal 3D printing
- Designed and fabricated low-cost, mobile tools using CNC routing, vacuum forming, and 3D printing to support Marine operations
- Applied Finite Element Analysis (FEA) to evaluate and improve structural designs

## PROJECTS & OUTSIDE EXPERIENCE

**DermLens – AI for Skin Cancer Treatment** **Remote**

- Build and evaluate CNNs on 4,500+ clinical images of skin cancer treatment *Sept 2023 – Present*
- Train machine learning model to grade redness and track progress during treatment
- Design teledermatology workflow for AI-assisted, low-cost treatment monitoring

**BeeFriendly Mobile App | 2023 Congressional App Challenge** **Murrieta, CA**
https://thunkable.site/w/1v3Tgfg2O3DLZjzLfRBvo *Jan 2023 – Aug 2023*

- Led team of five to ideate, wireframe and program mobile app
- Habitat assessment tool for native bees of Inland Empire Southern California

**Women In Computing Beginner's Programming Competition | 20th/60 place** *November 2025*

## ACTIVITIES & LEADERSHIP

**Women in Computing (WiC) at UC San Diego** | Member Sept 2025 – *Present*
**Society of Women Engineers at UC San Diego** | Member Sept 2025 – *Present*
**Rewriting The Code** | Collegiate Member Oct 2025 – *Present*
**SWENext Club of Murrieta Valley HS** | President & Founder *Aug 2023 – June 2025*
Founded and led 30+ member chapter, hosting monthly speakers and mentoring for aspiring engineers
**MVHS VEX Robotics Team** | Co-Captain *Aug 2022 – June 2025*
Managed building, strategy, and CAD design; recruited / mentored new members

## SKILLS & INTERESTS

**Mechanical:** Fusion 360, SOLIDWORKS, FEA Simulation, Additive Manufacturing, CNC Machining
**Prototyping:** Polyga 3D Scanner, Laser Cutter, ShopBot CNC, Vacuum Former, Keyence Microscope
**Interests:** Computer Vision, AI Agents, LLMs, Defense Technology
**Courses**: C++ Object Oriented Programming, Basic Data Structures (CSE 12), Intro to Java Programming, Foundations of Data Science