

Emily Wong

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EDUCATION

California Polytechnic State University of San Luis Obispo
Bachelor of Science, Computer Science

September 2021 – August 2026
San Luis Obispo, CA

Relevant Coursework: Data Structures, Project Based Object Oriented Programming and Design, Systems Programming, Operating Systems, Design and Analysis of Algorithms, Artificial Intelligence, Dynamic Web Development

EXPERIENCE

Los Angeles Department of Transportation (LADOT)
Application Development Intern

August 2025 – Present
Los Angeles, CA

- Built and deployed a traffic sign detection model using YOLOv8, Label Studio, and Google Maps data, achieving 0.7–1.0 detection confidence and enabling automated mapping of traffic infrastructure
- Automated internal analytics by writing SQL queries and building dynamic data reports in Microsoft Report Builder, reducing manual reporting time by 30%
- Developed and integrated new front-end features in TypeScript, improving UI responsiveness and enhancing accessibility

Vera
Software Engineer

December 2024 – June 2025
San Luis Obispo, CA

- Contributed to the development of front-end and back-end features for *Vera*, a mental health platform designed to centralize support services and share student experiences
- Supported a cross-functional team of developers and designers in building secure APIs, responsive UI components, and data-driven features, enhancing overall accessibility and user engagement

SOFTWARE PROJECTS

MAD
<https://github.com/ewong128/MAD>

September 2025 - December 2025

- Developing a collective mobile app workspace; focused on Android development and user experience design
- Created a prototype for FoodTawk, a mobile food discovery app, focusing on user-friendly interface design

Major Insight
<https://github.com/ewong128/majorinsight>

September 2024 - March 2026

- Built the initial version of a review platform for Cal Poly majors to help underclassmen make informed academic decisions
- Developed front-end features using HTML, CSS, Typescript and JavaScript, with planned support for user authentication and database integration

Under One Roof
<https://github.com/ewong128/underoneroof>

April 2024 - June 2024

- Created a task management web app to improve household coordination among housemates
- Collaborated in a team of six to implement a full-stack solution with React, Node.js, and MongoDB, deployed to Azure (*now archived*)

TECHNICAL SKILLS

Programming Languages: Python, TypeScript, JavaScript, Java, C, RISC-V Assembly, R, SAS, SQL, C#, Kotlin
Frameworks & Tools: React, Node.js, MongoDB, YOLOv8, Git, Github, Azure, SQL, Figma, Jira, Confluence, Agile
Other: Fluent in English and Cantonese

Leadership & Involvement

CodePath-Alumni, CYB 101 (Cybersecurity) Program & TIP 102 (Technical Interview Prep) Program

Women Involved in Software & Hardware (WISH)- General Member

Society of Women Engineers (SWE)-Past Robotics Subcommittee Coordinator (Communications & Publicity)

Girls Who Code (GWC)-Alumni, 2020 Summer Immersion Program