

# Manuel Gozzi

## Software Engineer

Enthusiastic/versatile learner with specialization in **Web, AI, Security, and Robotics**

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## EDUCATION

**California Polytechnic State University, San Luis Obispo 2022–2024**

**BS in Computer Science | GPA: 3.87 | Magna Cum Laude**

Relevant coursework in Algorithms, Data Structures, Deep Learning, Software Security, etc.

## EXPERIENCE

**Gen AI & Web Engineer, Emerge Haus 07/15/2024–present**

- Leveraged **NX Monorepo**, Microsoft Teams Toolkit, **Express**, React, Vercel AI SDK, and **OpenAI tools**, to optimize workflows, streamline operations, and contribute to the overall growth and success of clients'.
- Integrated **generative AI** solutions to enhance client operations and drive productivity.
- Collaborated closely with clients to understand their unique challenges and implement AI-driven strategies that expedited decision-making processes. Remote.

**Full Stack Developer, Layer3 06/2023–01/2024**

- Revitalized gatekeeper.com's user interface using **Tailwind CSS**, **React**, **Typescript**, and Styled Components.
- Integrated **MongoDB**, **Express**, and **Redis** backend to facilitate interactions with digital wallets and deploy verifiable contracts.
- Collaborated with a **team** of approximately 5 developers/designers, incorporating designs from **Figma** alongside personal insights. Remote.

**Machine Learning Intern, Monterey Bay Aquarium Research Institute 06/2022–08/2022**

- Enhanced the efficiency of the **machine learning** pipeline for tracking benthic deep-sea imagery through hyperparameter optimization.
- Employed **Python**, **PyTorch**-based YOLOv5, **Docker**, and Amazon Sagemaker.
- Showcased adept teamwork and **leadership** by successfully guiding the project individually and collaboratively. Hybrid.

**STEM Tutor, Monterey Peninsula College 03/2021–05/2022**

- Provided tutoring in **Computer Science**, **Math**, **Physics**, and Chemistry, both in group settings and as an embedded tutor in private sessions.
- Prioritized effective communication and exceptional teaching abilities throughout all tutoring engagements. Hybrid.

## PROJECTS

**NeetSeat** Ticket Selling Platform | **React Native** (iOS/Android/Web), Typescript, **Kubernetes**, Azure Kubernetes Service. A full stack cross-platform ticketing solution with auto-scaling Kubernetes clusters built and deployed onto Azure via GitHub Actions. **MongoDB** replica sets for data redundancy. Utilizes the TicketMaster APIs for seat maps.

**PrepHaven** AI IELTS English Practice Platform | **NextJS**, **Firebase**, **React**, Typescript, OpenAI, Stripe Payments

**SweatSink** AI Fitness App | **React Native** (iOS/Android), Typescript, MongoDB, OpenAI, Twilio Messaging

Web Server Monitor | Discord.py, Python

3D Idle Space Clicker | Godot, GDScript

Neural Network Doodle Classifier | Javascript, Matrix Math

– [View More On Portfolio](#) –

## SKILLS

### Web / Mobile

Node, Express, Redis, Kubernetes, Docker, NextJS, Firebase, SpringBoot, Typescript, JavaScript, Azure, AWS

React, React Native, ThreeJS, ShadCN, CSS, Tailwind, Redux, Zustand

MongoDB, MySQL, Jest, Python, Java, Github Actions

### General / Machine Learning / Game Dev

PyTorch, scikit-learn, C, C++, C#, Operating Systems, Low Level Programming, Robotics, Linux, Unix, Git, Bash

### Personal

Strong debugging and analytical skills, leader, self-sufficient, agile, creative, adaptable, strong communication, collaborative, familiar with agile and scrum

## AWARDS / PAPERS

2022 Paper

[Hyper Parameter Evolution For Deepsea Detection and Tracking](#)

2022

ASCA 2022 Duck Race | \$1500 Prize | **1st Place**

2022

Monterey Rotary Club Scholarship

2021 – 2022

**NASA** Aerospace Scholars (NCAS)

## LANGUAGES

**English** (Native), German (Beginner), Vietnamese (Beginner/Intermediate)