

Dylan Geraci

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Education

Bachelor of Science in Computer Science

California State University, Fullerton

Expected **May 2026**

GPA: **3.9/4.0**

Software Experience

Research Assistant

California State University, Fullerton

November 2025 - Present

Fullerton, CA

- Fine-tune **YOLOv11s** on a 1,300-image custom dataset, achieving **0.96 mAP@50**
- Deploy object detection model to **Raspberry Pi NPU** using **NCNN** for edge inference

Software Engineer Intern

Crete Robotics Solutions

October 2025 - Present

Fullerton, CA

- Design FastAPI backend with **30+ REST endpoints** supporting task matching and messaging
- Implement real-time WebSocket messaging with **JWT authentication** and MongoDB persistence
- Integrated Google Gemini into task-matching pipeline to enhance NLP-based query parsing accuracy

Software Engineer Intern

Yembo

September 2025 - January 2026

Remote

- Architected **multi-threaded** Python system orchestrating **16 microcontrollers** for real-time AI interaction
- Engineered whisper.cpp speech pipeline achieving **2-4s** end-to-end latency
- Deployed production AI installation serving continuous live interaction during multi-month museum exhibition

Leadership Experience

Peer Advisor

Project RAISE

July 2025 - Present

Fullerton, CA

- Mentor **40+** STEM transfer students through 1-on-1 advising, technical guidance, and academic planning
- Deliver technical presentations and workshops to **100+** students on software engineering and career development

Artificial Intelligence Board

Association of Computing Machinery

May 2025 - Present

Fullerton, CA

- Lead ML workshops for **35+** students using Scikit-learn and **TensorFlow**
- Increase workshop attendance by **50%** through real-world ML/DS coding demos

Projects

SessionLog | Next.js, TypeScript, Supabase, Tailwind CSS

- Architected full-stack practice analytics platform with real-time tracking, goal setting, and streak monitoring
- Designed **PostgreSQL** database with **Row Level Security**, isolating user data across multi-tenant architecture
- Optimized server performance to **sub-200ms** response times using Next.js SSR and Vercel edge deployment

Carelink | Next.js, Tailwind CSS, SQLite, FastAPI

- Built FastAPI backend processing on-device audio transcription in **<5 seconds**
- Developed responsive **Next.js** frontend featuring real-time audio visualization and session timeline
- Integrated Deepseek LLM using custom prompt chains for AI-powered medical conversation analysis

ParkSafe-LA | React.js, Tailwind CSS, Jupyter

- Developed ML classifier on **23M+** LA parking citations to predict citation risk
- Engineered a preprocessing pipeline using Pandas, NumPy, and BallTree for geospatial ZIP mapping
- Validated prototype with **45+** users, achieving **97%** satisfaction in early usability testing

Skills

- **Languages:** Python, JavaScript, TypeScript, C++, Java, SQL, C, HTML, CSS, R
- **Frameworks:** FastAPI, React.js, Next.js, Node.js, Express.js, Django, Flask, Tailwind CSS
- **Databases:** PostgreSQL, MongoDB, MySQL, SQLite
- **Tools:** Git, Docker, Kubernetes, PyTorch, TensorFlow, Vercel, Railway, Supabase
- **Cloud:** AWS, Google Cloud, Azure, Oracle Cloud, Cloudflare