

Dylan Geraci

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Education

Bachelor of Science in Computer Science

Expected **May 2026**

California State University, Fullerton

GPA: **3.9/4.0**

- **Relevant Coursework:** Machine Learning, Software Engineering, Natural Language Processing, Data Science and Big Data, Algorithms, Web Back-End Engineering, Applied Statistics, Operating Systems, Databases

Experience

Software Engineer Intern

October 2025 - Present

Crete Robotics Solutions

Fullerton, CA

- Architect FastAPI backend with **30+ REST endpoints** supporting task matching and messaging
- Implement real-time WebSocket messaging with **JWT authentication** and MongoDB persistence
- Improve task matching accuracy by integrating Google Gemini AI for NLP-based query parsing

Artificial Intelligence Board

May 2025 - Present

Association of Computing Machinery

Fullerton, CA

- Conduct Data Science and ML workshops for **35+** students, strengthening technical and interview skills
- Led coding demos on feature engineering, model training, and evaluation using Scikit-learn and **TensorFlow**
- Increase workshop attendance by **50%** by developing real-world programming demo applications

Peer Advisor

July 2025 - Present

Project RAISE

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

Software Engineer Intern

September 2025 - January 2026

Yembo

Remote

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

Projects

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

- Streamlined practice tracking with real-time analytics, 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*

- Architected **FastAPI** backend pipeline processing audio transcription in 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 an ML model 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