

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 <i>California State University, Fullerton</i>	November 2025 - Present <i>Fullerton, CA</i>
Software Engineer Intern <i>Crete Robotics Solutions</i>	October 2025 - Present <i>Fullerton, CA</i>
<ul style="list-style-type: none">Design FastAPI backend with 30+ REST endpoints supporting task matching and messagingImplement real-time WebSocket messaging with JWT authentication and MongoDB persistenceIntegrated Google Gemini into task-matching pipeline to enhance NLP-based query parsing accuracy	
Software Engineer Intern <i>Yembo</i>	September 2025 - January 2026 <i>Remote</i>
<ul style="list-style-type: none">Architected multi-threaded Python system orchestrating 16 microcontrollers for real-time AI interactionEngineered whisper.cpp speech pipeline achieving 2–4s end-to-end latencyDeployed production AI installation serving continuous live interaction during multi-month museum exhibition	

Leadership Experience

Peer Advisor <i>Project RAISE</i>	July 2025 - Present <i>Fullerton, CA</i>
<ul style="list-style-type: none">Mentor 40+ STEM transfer students through 1-on-1 advising, technical guidance, and academic planningDeliver technical presentations and workshops to 100+ students on software engineering and career development	
Artificial Intelligence Board <i>Association of Computing Machinery</i>	May 2025 - Present <i>Fullerton, CA</i>
<ul style="list-style-type: none">Lead ML workshops for 35+ students using Scikit-learn and TensorFlowIncrease workshop attendance by 50% through real-world ML/DS coding demos	

Projects

SessionLog <i>Next.js, TypeScript, Supabase, Tailwind CSS</i>
<ul style="list-style-type: none">Architected full-stack practice analytics platform with real-time tracking, goal setting, and streak monitoringDesigned PostgreSQL database with Row Level Security, isolating user data across multi-tenant architectureOptimized server performance to sub-200ms response times using Next.js SSR and Vercel edge deployment
Carelink <i>Next.js, Tailwind CSS, SQLite, FastAPI</i>
<ul style="list-style-type: none">Built FastAPI backend processing on-device audio transcription in <5 secondsDeveloped responsive Next.js frontend featuring real-time audio visualization and session timelineIntegrated Deepseek LLM using custom prompt chains for AI-powered medical conversation analysis
ParkSafe-LA <i>React.js, Tailwind CSS, Jupyter</i>
<ul style="list-style-type: none">Developed ML classifier on 23M+ LA parking citations to predict citation riskEngineered a preprocessing pipeline using Pandas, NumPy, and BallTree for geospatial ZIP mappingValidated 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