

Dylan Geraci

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Education

Bachelor of Science in Computer Science <i>California State University, Fullerton</i>	Expected May 2026 GPA: 3.9/4.0
<ul style="list-style-type: none">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 <i>Crete Robotics Solutions</i>	October 2025 - Present <i>Fullerton, CA</i>
<ul style="list-style-type: none">Architect FastAPI backend with 30+ REST endpoints supporting task matching and messagingImplement real-time WebSocket messaging with JWT authentication and MongoDB persistenceImprove task matching accuracy by integrating Google Gemini AI for NLP-based query parsing	
Artificial Intelligence Board <i>Association of Computing Machinery</i>	May 2025 - Present <i>Fullerton, CA</i>
<ul style="list-style-type: none">Conduct Data Science and ML workshops for 35+ students, strengthening technical and interview skillsLed coding demos on feature engineering, model training, and evaluation using Scikit-learn and TensorFlowIncrease workshop attendance by 50% by developing real-world programming demo applications	
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	
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 speech recognition pipeline using whisper.cpp, achieving 2–4s response latencyDeployed production AI installation serving continuous live interaction during multi-month museum exhibition	

Projects

SessionLog <i>Next.js, TypeScript, Supabase, Tailwind CSS</i>	<ul style="list-style-type: none">Streamlined practice tracking with real-time analytics, 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">Architected FastAPI backend pipeline processing audio transcription in 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 an ML model 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