

Dylan Geraci

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Professional Experience

Software Engineer May 2026 - Present

Mindful Metrics *Remote*

- Refactored e-commerce platform to FastAPI/React with Stripe and Shopify integration, supporting **1M+** items sold
- Orchestrate Linux VPS deployments via Docker and GitHub Actions, utilizing systemd to ensure high availability
- Integrated Google GenAI SDK into Direct to Film marketplace to power intelligent technician-job matching

Research Assistant November 2025 - May 2026

California State University, Fullerton *Fullerton, CA*

- Fine-tuned YOLOv11s on a **1,300-image** custom dataset, achieving **0.96 mAP@50** object detection accuracy
- Accelerated edge inference by deploying object detection model to Raspberry Pi NPU using NCNN

Software Engineer Intern October 2025 - May 2026

Crete Robotics Solutions *Fullerton, CA*

- Designed RESTful API with **30+ endpoints** supporting task matching and messaging
- Implemented real-time WebSocket messaging with JWT authentication and MongoDB persistence
- Established pytest unit tests maintaining **80% code coverage** across RESTful API endpoints

Software Engineer Intern September 2025 - January 2026

Yembo *Remote*

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

Leadership Experience

Artificial Intelligence Board May 2025 - May 2026

Association of Computing Machinery *Fullerton, CA*

- Led ML workshops for 35+ students using Scikit-learn and TensorFlow
- Increased 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 **<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**
- Constructed responsive Next.js frontend featuring real-time audio visualization and session timeline
- Integrated DeepSeek LLM with custom prompt chains for medical conversation analysis

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

- Trained a Random Forest classifier on **23M+** LA parking citations to predict citation risk
- Engineered a preprocessing pipeline using Pandas, NumPy, and BallTree for geospatial ZIP mapping

Skills

- **Languages:** Python, JavaScript, TypeScript, C++, Java, Rust, SQL, HTML, CSS
- **Frameworks:** FastAPI, React.js, Next.js, Node.js, Express.js, Tailwind CSS
- **Databases:** PostgreSQL, MongoDB, MySQL, SQLite
- **Tools:** Git, Docker, Kubernetes, GitHub Actions (CI/CD), PyTorch, TensorFlow, Jira (Agile/Scrum), Pytest
- **Cloud:** AWS, Google Cloud, Azure, Cloudflare

Education

Bachelor of Science in Computer Science

California State University, Fullerton

May 2026

GPA: **3.98/4.0**