Sarayu Mummidi

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EDUCATION

University of California, Davis — June 2027
Bachelors in Computer Science, Minor in Technology Management — *GPA: 3.81*

Relevant Coursework: Object-Oriented Programming, Data Structures, Algorithm Design and Analysis, Linear Algebra, Computer Architecture, Theory of Computation, Machine Learning, Operating Systems

Certifications: Deans Honor List, Oracle Cloud Generative AI Professional, Cornell Machine Learning Foundations

EXPERIENCE

AI/ML Engineer Fellow — August 2025 - Present
7-Eleven — *Remote*
- Building an agentic AI system for 7-Eleven by engineering a PDF ingestion and retrieval pipeline with vector databases (FAISS/Weaviate) and embeddings, enabling scalable semantic search across unstructured enterprise documents.
- Implementing multi-agent reasoning workflows using LangChain to support cross-document query answering and summarization, targeting >80% retrieval precision and enterprise-ready insight generation.

Software Engineer Intern — June 2025 - August 2025
RoboticsCats — *Remote*
- Engineered OCR-based receipt scanner with Flask + React Native; optimized text clarity using OpenCV preprocessing (cropping, exposure adjustment) for Gemini OCR, achieving 99%+ field-matching accuracy with Sheets API integration
- Built a real-time wildfire detection dashboard with React and Flask, integrating camera APIs for live monitoring, bounding box visualization, and multi-instance management.
- Developed an alerting system using Twilio WhatsApp API with scalable backend services, reducing latency by 60%

President/Fullstack Developer — April 2025 - Present
Women in Computer Science @ Davis — *Davis, CA*
- Lead a 12-members board with Agile principles to plan and execute 10+ industry events with leaders from Google, Adobe, and Chevron and achieve an 50% increase in member engagement
- Redesigned and developed a fully responsive club website using React and TailwindCSS, implementing scalable components to streamline content updates for 100+ users

Machine Learning Intern — December 2024 – Present
UC Davis Center of Mind and Brain — *Davis, CA*
- Engineered Python scripts to accurately extract gaze timestamps on targeted objects, reducing analysis time by 40%.
- Devised a synchronization pipeline in Vizard 8 to align gaze data with iEEG signals using TTL markers, enabling neural correlation analysis across 60+ VR trials.

Software Engineer Intern — June 2024 – August 2024
Innominds - AWS and Microsoft Certified Partner — *San Jose, CA*
- Built a responsive dashboard using React.js and Material UI, increasing data visibility and client engagement by 20%.
- Implemented backend APIs with Node.js and MongoDB to capture user queries, enabling Gemini LLM to deliver 25% more accurate personalized responses.
- Integrated Gemini LLM via REST API to parse natural language queries and generate tailored data visualizations

PROJECTS

signal.ai: Copilot for First Responders | *React, GCP, Twilio, WebSockets, Pinecone, Groq* | (**Github**) (**Demo**)   2025
- Developed an AI assistant for first responders using Groq LLM to generate real-time call summaries and protocol prompts
- Reduced response latency from 3s to < 1.3s by optimizing Letta's memory usage and parallelizing Groq LLM inference

LingoLearn | *React.js, Python, FastAPI, Axios, PostgreSQL, TailwindCSS* | (**Github**)   2025
- Built a end-to-end full-stack flashcard app with React and PostgreSQL; designed RESTful APIs with FastAPI and Axios to support secure, low-latency flashcard operations.
- Architected a FastAPI backend with Pydantic schema validation and secure CORS configuration for frontend integration.

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, TypeScript, C/C++, SQL, Swift, Ruby, R, MATLAB, HTML, CSS
Frameworks & Libraries: React.js, Angular.js, Node.js, Express.js, FastAPI, Flask, Django, Ruby on Rails, React Native, TailwindCSS, TensorFlow, PyTorch, Keras, Pandas, NumPy, Scikit-learn, LangChain, MongoDB, PostgreSQL, Firebase, Figma
Cloud & DevOps: Google Cloud Platform (GCP), AWS, Docker, Linux/Unix, Git, Jira