

Matt Marietta

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EDUCATION

California State University Long Beach

Bachelor of Science in Computer Science (GPA: 3.89 / 4.00)

Long Beach, CA

August 2022 - May 2026

EXPERIENCE

Full Stack Development Intern

Jan 2026 – Present

AIM-HI

Irvine, CA

- Shipped a generative **AI video pipeline** to production for **20+ users** by integrating Runway and Google Veo 3.1 via **Firestore Cloud Functions**
- Engineered a 5-stage image-to-video pipeline with SSE streaming, enabling users to track long-running generation jobs in real time
- Built **LinkedIn analytics features** with **4+ REST endpoints**, enabling users to monitor impressions, engagement, and trends

Machine Learning Research Assistant

Jan 2025 – May 2026

CSULB

Long Beach, CA

- Benchmarked **4 ML architectures** (1D-CNN, DS-CNN, LSTM, MLP) across accuracy, F1, latency, power, and model size for embedded deployment
- Achieved **99.0% accuracy**, **0.99 F1**, and **0.10 ms latency** with DS-CNN, running **97.5% below** the 4 ms real-time threshold
- Cross-functionally collaborated with Electrical Engineering researchers, presenting technical findings and translating model outputs into actionable insights for embedded deployment decisions

Software Engineer Intern

Mar 2025 – Jun 2025

QuantStore

Long Beach, CA

- Delivered a real-time **React/TypeScript** code editor with unit and integration tests, enabling production users to preview, modify, and validate generated trading scripts
- Optimized **3 analytics dashboard components**, reducing frontend bottlenecks and improving responsiveness across production workflows
- Reduced average API response time by **40% (1.8s to 1.1s)** by adding asynchronous workers and optimizing **Flask** routes

PROJECTS

Miaomo.ai RAG Study Assistant | *React, Node.js, LangChain, Gemini, Pinecone, Firestore*

[GitHub](#)

- Built a multi-step agentic AI system using a Retrieval-Augmented Generation (RAG) pipeline, enabling users to upload files, query documents, and receive source-grounded, LLM-generated answers
- Implemented an interactive PDF viewer alongside the AI chat, allowing users to highlight passages, add comments, and generate notes or flashcards from uploaded documents
- Added citation and paper recommendation features to improve source traceability and help users discover related research

Eco Nauts | *React, FastAPI, Mapbox, Docker, TensorFlow, Tailwind, Scikit-learn*

[GitHub](#)

- Developed a Dockerized, cloud-native full-stack web app with React, FastAPI, and Mapbox deployed on GCP to recommend solar and wind installation locations
- Developed predictive ML models achieving 97% accuracy in forecasting renewable energy output from real-time weather data
- Implemented a scoring system and interactive visualizations to compare sustainability and efficiency across locations

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, HTML, CSS, Python, Java, SQL, C++, C#, R

ML / AI: PyTorch, TensorFlow, Pandas, NumPy, LangChain, RAG, Generative AI, Agentic AI Systems, NLP

Technologies: React, Node.js, FastAPI, Flask, Django, REST APIs, Docker, AWS, CI/CD (Github Actions, Vercel), Kubernetes, Google Cloud (GCP), Firestore, Pinecone, Mapbox, Tailwind CSS

Developer Tools: Git, Linux (Ubuntu, WSL), Agile/Scrum, Jupyter Notebooks, Vercel, Tableau