

Nicole Weatherburne

AI Product Engineer | Full-Stack LLM Systems

California (Remote) · nweat.github.io · [GitHub](#) · [LinkedIn](#)

I design and ship production AI features end-to-end: RAG chatbots grounded in private docs, LLM pipelines with reliable structured outputs, and the React/API surfaces users actually talk to. Comfortable owning prompt design, retrieval quality, cost control, and the full-stack glue that turns a prototype into a product.

WHAT I BUILD FOR CLIENTS

- RAG chatbots - embeddings + retrieval over FAQs/SOPs/policies, prompt instructions, chat UIs, accuracy testing
- AI Automation - Examples: AI Receptionist, Lead Conversion & Intelligent Workflows

EXPERIENCE

Dozuki — Senior Software Engineer, AI Integrations

Oct 2025 – Present

Manufacturing knowledge platform · Creator Pro AI

- Built an AI release notes generator reducing manual effort by 80%
- Designed an eval harness for chunking and retrieval quality for our own AI Assistant
- Designed a Datadog dashboard for pipeline performance monitoring. Dashboard JSON is automatically generated from the pipeline code and reviewed by the team before deployment.
- Promote AI use in the company via AI workshops and maintaining an AI toolkit for software engineers

HeyNunchi — AI / Full-Stack Contractor

Apr 2024 – Oct 2025

- LLM workflows that raised engagement while cutting input token usage by 15%
- Vector similarity search + metadata filters to reduce context-window cost
- Secure AI-centric APIs, Stripe payments, feature flags, GCP logging
- Supported SOC 2 Type II preparation with zero major findings

Wysk.ai — Software Engineer (Part-time Contractor)

Jul 2023 – Jan 2024

- Led a social/live-interaction POC built with React + Mux streaming, ArangoDB, Algolia, GitHub Actions CI/CD

DeepHow — Software Engineer (Part-time Contractor)

Nov 2020 – May 2023

Enterprise manufacturing training SaaS

- Optimized signed media delivery APIs for streaming training content to reduce bandwidth costs

GeoThings — Full Stack Developer

Aug 2020 – Aug 2022

- Real-time monitoring UIs (Angular + Mapbox)
- Geofencing alerts and LINE chatbot notifications on AWS

Dialog Semiconductor — Senior Software Engineer

Sep 2017 – Aug 2020

- Frontend modernization and microservices (~4x response-time improvement)
- Python/Celery/Redis data services; Jenkins CI/CD (~40% faster releases)

EDUCATION

M.S., Information Systems and Applications — National Tsing Hua University (2015–2017). Thesis: bipolar disorder behavior signals on Twitter (NLP).

B.S., Information Technology — University of Belize (2007–2011), Cum Laude.

CORE STACK

React, TypeScript, Vite, Tailwind · Python, FastAPI, Node, NestJS · PostgreSQL, vector search · LangChain, LangGraph, LangSmith · OpenAI, Claude, Bedrock · AWS, GCP, Docker · Stripe, Redis, GitHub Actions