

SHANA CZANE CRUZAT

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SUMMARY

Full-stack developer specializing in AI integration — builds end-to-end applications with Next.js/TypeScript frontends, Python/FastAPI backends, and RAG pipelines on vector databases. Hands-on with OpenAI, Anthropic Claude, and Groq APIs, LangChain, and Pinecone. Currently a Backend AI Engineer Intern at FlyRank AI.

EXPERIENCE

Backend AI Engineer Intern — FlyRank AI

July 2026 – Present

- Build AI features with Python and FastAPI, working with LLM APIs and retrieval-augmented generation (RAG) pipelines.
- Collaborate across backend and product teams to turn AI capabilities into user-facing features.

Frontend Developer Head — AWS Learning Club, De La Salle Lipa

2025 – Present

- Lead frontend development for club projects; run workshops and mentor members on React, Next.js, and modern tooling.

PROJECTS

Lasallia — AI Library Assistant (Thesis)

2026 – Present

Next.js • TypeScript • FastAPI • Supabase • OpenAI GPT-4o-mini

- Built an end-to-end RAG library assistant in a Next.js + FastAPI + Supabase monorepo: conversational chatbot with multi-turn, source-grounded answers, plus a real-time catalog with search and filters.
- Implemented TF-IDF/cosine-similarity book recommendations; deployed the frontend on Vercel and the API on Railway.

Dunong — AI Recitation Coach

Top 10, ACM TechSprint 2026

Next.js • TypeScript • Groq (Llama 3.3) • OCR

- Built an end-to-end AI recitation coach: OCR text extraction, context-locked prompting on Groq (Llama 3.3), and a voice-driven “Point-Tap-Speak” interface with real-time feedback.
- Engineered prompt and context strategies so AI feedback stays grounded in the student's selected textbook passage, improving output reliability.

Contract Assistant — Legal Document Q&A

2025

Next.js • LangChain • Pinecone • OpenAI Embeddings • Groq

- Designed and implemented a complete RAG pipeline: document chunking, OpenAI embeddings, Pinecone vector search, and LangChain orchestration with Groq for generation.
- Built the full application around it — document upload, conversational Q&A, and answers grounded in retrieved source clauses.

FurSure — Pet Care Service Platform

2025 – Present

Next.js • TypeScript • Supabase • Tailwind CSS

- Built a full-stack pet care platform: role-based access control for three user types with Supabase Auth, live database queries, and document verification workflows.
- Migrated from React/Vite to Next.js App Router and built role-specific dashboards from a shared component library.

SKILLS

Frontend: Next.js (App Router), React, React Native (Expo), TypeScript, JavaScript, Tailwind CSS, HTML5, CSS3

AI & RAG: OpenAI, Anthropic Claude, Groq APIs • LangChain • Pinecone • embeddings & semantic search • RAG architecture • prompt engineering

Backend & APIs: Python, FastAPI, Node.js, REST API design & integration, Supabase (Auth, Database, Storage), PostgreSQL

Deployment & Tools: Vercel, Railway, Docker (fundamentals), Git & GitHub, n8n (exposure), AI-assisted development (Claude Code, GitHub Copilot)

Languages: English (fluent), Filipino (native)

EDUCATION

De La Salle Lipa — BS Computer Science

Expected June 2027

- Relevant coursework: Software Development, UI/UX Design, Data Science, Networking

CERTIFICATIONS

IBM RAG and Agentic AI Professional Certificate • DataCamp Associate AI Engineer for Developers • DataCamp Docker and Kubernetes Skill Track