ROMEO DELA CRUZ ANGELES JR.

Fullstack AI Engineer

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SUMMARY

Fullstack engineer with 6+ years building production-grade web applications, specializing in React, Next.js, TypeScript, and NestJS. AI engineering experience architecting production RAG and agentic systems: LangGraph-based multi-step agent orchestration, RAG pipelines with embeddings and vector databases (PGVector), retrieval evaluation with RAGAS, and pipeline observability with LangSmith. Integrated LLM and tool-calling workflows into developer platforms serving 10,000+ engineers, and presented AI platform work at Samsung Global AI Forum 2025. Founder of Mnemra, a RAG-based AI knowledge base for support teams, and Tyvera, an AI-powered SaaS platform for service businesses. Open to remote Fullstack/AI Engineer roles building production agentic AI systems.

EXPERIENCE

Samsung Research Philippines — Taguig, McKinley Hill

Fullstack Engineer III (Senior Software Engineer) · 2026 – Present

- Leading AI-assisted developer tooling initiatives for platform engineering teams across Samsung Research Philippines.
- Driving architecture strategy for the next iteration of the internal AI Training Platform, including scalability and observability improvements.

Fullstack Engineer II (Mid Software Engineer) · 2023 – 2026

- Built an AI Training Platform serving 10,000+ engineers, enabling faster development of on-device AI models across Samsung products.
- Engineered AI-driven developer workflows using prompt templates, context engineering, and custom tooling — increasing team throughput from 2–4 tasks/day to 4–7 tasks/day.
- Improved application page load time from ~3s to under 1s through memoization, code splitting, and rendering optimization.
- Reduced CI/CD deployment time from 8 minutes to ~5 minutes by migrating from Webpack to Vite.
- Built a reusable component and utility system that reduced new feature delivery from 2–3 days to under 1 day.

DigiPay — Remote *2021 – 2023*

Fullstack Engineer (Mid Software Engineer)

- Led a full revamp of the customer-facing fintech application, reducing page load time from 1–3s to under 1 second.
- Cut build-to-deploy pipeline time from 6–8 minutes to 2–4 minutes through bundling optimization and CI configuration.
- Redesigned the Bills Payment UX from 5 steps to 2 (existing customers) and 3 (new customers), significantly improving transaction completion rates.
- Enhanced application security by migrating from static site generation to server-side rendering.

Tech1 Corporation — Makati, Chino Roces *2020 – 2021*

Software Engineer (Junior Software Engineer)

- Developed cross-platform real-time communications applications (video/audio) that replaced costly third-party services, reducing operational expenses.
- Delivered the platform commercially to external businesses, generating additional revenue for the company.

PROJECTS

Mnemra — Founder & Lead Engineer *mnemra.ai · 2025 – Present*

- Founded and built Mnemra, a RAG-based AI knowledge base ("AI memory for support teams") that gives support teams fast, accurate answers grounded in internal documentation.
- Designing LangGraph-based agent workflows for multi-step reasoning and self-correcting retrieval (Corrective RAG / Self-RAG patterns).
- Architected a retrieval pipeline using LangChain.js, OpenAI embeddings, and PGVector, with chunking-strategy and hybrid search experimentation to improve retrieval accuracy.
- Evaluating retrieval and generation quality with RAGAS metrics (faithfulness, answer relevancy, context precision) and monitoring pipeline behavior with LangSmith.
- Built ingestion tooling (URL-based document loaders) to onboard enterprise documentation sources for pilot customers.

Tyvera — Founder & Lead Engineer *tyvera.app · 2024 – Present*

- Building a SaaS appointment scheduling and AI-powered customer follow-up automation platform targeting Philippine service businesses (salons, barbershops, clinics, spas).
- Implementing AI automation using LangChain.js and the Vercel AI SDK with RAG pipelines for context-aware follow-up messaging.
- Stack: Next.js, NestJS, TypeScript, PostgreSQL, Drizzle ORM, Tailwind CSS, shadcn/ui, Supabase.
- Architected a monorepo structure with clean separation across frontend, backend, and shared packages for full-stack TypeScript development.

SKILLS

Languages: TypeScript, JavaScript, HTML5, CSS3

Frontend: React, Next.js, Vue.js, Tailwind CSS, shadcn/ui, ChakraUI, MUI

Backend: NestJS, Express, Node.js, REST APIs

AI / LLM: LangGraph (agent orchestration, tool use, stateful memory), LangChain.js, RAG pipelines (embeddings, hybrid search, reranking), RAGAS, LangSmith, OpenAI API, Vercel AI SDK, prompt engineering, structured outputs

Database: PostgreSQL, PGVector, Supabase, Drizzle ORM

DevOps: Docker, CI/CD, Vercel, GitHub Actions

Tools: Cursor, Claude, GitHub Copilot

EDUCATION

STI College Caloocan — Caloocan, Metro Manila *2022*
Bachelor of Science, Computer Science

ACHIEVEMENTS

- Presented AI Training Platform at Samsung Global AI Forum 2025 — represented Samsung Research Philippines on a global stage.
- 3× Samsung Team Member of the Month — recognized for exceptional technical contributions and cross-team collaboration.
- 1st Place — Coca-Cola National Code Fest.