

Mark Daniel Edillor

Full-Stack Software Engineer | AI Engineer

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Full-stack software engineer and AI engineer shipping production web apps since 2022 with TypeScript, React, Next.js, Node.js, Laravel and PostgreSQL. Lead developer at SUpost, a marketplace for the Stanford community (about 20,500 monthly users), building its Gemini assistant and AI agent end to end: tool calling, multimodal generation, evals and guardrails. Strong in system architecture, database design and UI/UX, with a track record of secure, user-centered software, including an award-winning disaster response platform.

PROFESSIONAL EXPERIENCE

Full-Stack Software Engineer & AI Engineer | SUpost · Remote

Jul 2025 – Present

- Lead development of SUpost, the Stanford community's marketplace since 2005 (about 20,500 users and 435,000 pageviews a month), and Capmus, its multi-campus version: ship most features and modernize both on Next.js, TypeScript, Supabase and AWS S3.
- Built Capi, a multimodal AI listing assistant on Gemini: it drafts titles, descriptions and prices from sellers' photos and video, enhances or generates listing photos, and makes short product videos with Veo, with usage quotas tied to Stripe plans.
- Built Capi Agent, which uses Gemini function calling to fill in and publish listings through the real create-listing flow, with user confirmations, a step budget, loop guards and prompt-injection defenses.
- Shipped tool calling in Capi Chat (listing search, account answers, message drafts, support requests) through a staged, feature-flagged rollout, with live evals, an LLM judge and PII redaction for stored chats.
- Built Stripe payments: Post Boost paid listing promotion with an admin revenue dashboard and a free Daily Spotlight, plus housing bookings with 3-D Secure.
- Collaborate on system architecture, performance and CI/CD: code-split the listings feed for faster loads, and ship through GitHub Actions with Docker preview builds on Google Cloud Run.
- Built Ketonu solo: continuous ketone monitoring on Next.js and Supabase with personalized Gemini health insights.

Freelance Full-Stack Developer | Independent · Remote

Nov 2022 – Present

- Lead developer of 888Group's runner portal (Next.js 16, TypeScript, Supabase, Tailwind CSS), which replaced WhatsApp and WeChat deal threads for a team of 40–50 buyers.
- Built its commitment engine as one atomic PostgreSQL transaction, so concurrent buyers can never over-commit a deal; added role-based portals, real-time alerts, an audit log and Playwright end-to-end tests in CI.
- Delivered websites, web apps, web interfaces and desktop tools for 15+ clients in the Philippines and abroad (React, Laravel, Node.js, MySQL), improving their user experience and site traffic.
- Set up automated testing and streamlined deployments, cutting the time and resources needed for software updates by 30%.

Tech Support Intern | Rodriguez Municipal Police Station

May 2025

- Diagnosed and resolved 30+ hardware and software issues for the police station, keeping 99% system uptime with minimal disruption to critical operations.
- Helped resolve 4+ crime incidents through digital backtracking, monitoring, incident data analysis and crime mapping during 250 hours of on-the-job training.

TECHNICAL PROJECTS

AI Portfolio Assistant · [Live demo](#)

2026

- Gemini assistant that answers recruiters from the portfolio's own content: hybrid retrieval (BM25 plus Gemini embeddings, rank fusion) with cited sources, tool calls that show cards, rate limits and prompt-injection guardrails.
- Built 51 automated evals (facts, tool use, refusals, prompt injection); moving retrieval ahead of the model cut median time to first word from about 5 s to under 3 s.
- Next.js 16 and Vercel AI SDK, with visits and chats recorded in Supabase behind a PIN-protected admin dashboard; CI enforces Lighthouse 90+ on mobile, and first load fell from 7.2 MB to under 400 KB.

Emergency Response and Disaster Management System | Lead developer and presenter

2024 – May 2025

- Led the research, design and development of an AI-assisted progressive web app for local governments: citizen reports with live location, an AI assistant, real-time GIS tracking, rescue coordination and disaster alerts.
- Integrated real-time alerts and citizen reporting (React, Node.js, Express, MongoDB, Firebase), raising public engagement 25% during pilot testing; validated by LGU personnel and first responders.
- Named Champion out of 1,355 research papers (2025 Research Festival); presented in Kuala Lumpur as one of six delegates.

Energy-Efficient Smart Irrigation System	Nov – Dec 2025
- Built a secure web app for monitoring and controlling smart irrigation with Next.js, Tailwind CSS and Supabase Auth. - Designed analytics comparing continuous and pulsed irrigation, with AI insights that identify the most water- and energy-efficient strategy. - Built real-time dashboards for energy use, irrigation performance and efficiency trends, supporting data-driven, sustainable decisions.	
Authentication and Authorization Web App	Jan 2024
Full-stack MERN app with Google OAuth sign-in, JWT and secure cookies, improving login efficiency by 40% while following security best practices.	
Library Management System	Mar 2023
Java and MySQL desktop app that automated a library's book and student records, processing 100+ records a week and reducing manual errors by 25%.	

SKILLS

Technical Skills:

AI Engineering: Gemini API, Vercel AI SDK, AI agents, Function calling, RAG, Embeddings, Multimodal generation (image, video), Prompt engineering, LLM evals, Guardrails, LLM chatbots, Recommendation systems, Data pipelines AI Tools: Claude Code, Claude, Cursor, OpenAI, Hugging Face Languages: TypeScript, JavaScript, Python, PHP, Java, C++, SQL Frontend Development: Next.js, React, Tailwind CSS, HTML, CSS, shadcn/ui, Material UI, Responsive design, Accessibility (WCAG) Backend Development: Node.js, Express, Laravel, REST APIs, Stripe, Authentication (OAuth, JWT) Database Management: Supabase, PostgreSQL, MySQL, MongoDB, SQLite, Firebase Cloud and DevOps: Vercel, AWS S3, Google Cloud Run, Docker, GitHub Actions, CI/CD, Git, GitHub Testing and Security: Playwright, End-to-end testing, Lighthouse CI, Role-based access, Row-level security, Input validation, Rate limiting, PII redaction, Prompt-injection defense Tools and Methodologies: UI/UX design and wireframing, System architecture, Agile, Waterfall, Software engineering best practices	
Interpersonal Skills: Cooperative and receptive to guidance, Effective time management, Task delegation, Conflict resolution	

EDUCATION

Bachelor of Science in Information Technology, major in Information Management	2021 – 2025
Bestlink College of the Philippines GWA 1.4 (1.0 is the highest) Capstone named Research Festival Champion	
Information and Communication Technology Strand	2019 – 2021
Asian Institute of Computer Studies With High Honors General Average 96.0	

CERTIFICATIONS, AWARDS AND CONFERENCES

Champion, 9th SIMP-AAIRI-BCP Multidisciplinary Research Festival – 1st of 1,355 research papers	May 2025
Delegate and presenter, 24th Joint Multidisciplinary Research Conference – Kuala Lumpur, Malaysia	Jul 2025
Presented the Emergency Response system and engaged with international researchers on innovation, technology, AI and applied research.	
Cyber Threat Management – Cisco Networking Academy	Jun 2025
Artificial Intelligence Fundamentals – IBM SkillsBuild	Jun 2025
Recognition for On-the-Job Training – Rodríguez Municipal Police Station	May 2025
Information Management in the Digital Age – Truline Holdings and Development	Nov 2024
Research Forum 2024: Cultivating a Multidisciplinary Research Culture with AI – Bestlink College	Sep 2024
Techscape 2023: Sustainable IT seminar – JVD and Bestlink College	Nov 2023
BITZ 2023: Understanding the Innovator's Role in Digital Transformation – Bestlink College	Apr 2023