DANNEIL LOUVEN ALINEA

Software Engineer & AI Engineer

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PROFESSIONAL SUMMARY

Software Engineer with 1.5+ years building production systems in ASP.NET Core, Node.js, React, and Flutter, plus LLM-powered features with RAG, LangChain, and MCP. Currently maintains an internal ASP.NET Core (.NET 10) and SQL Server system at Equicom, handling VAPT remediation and SonarQube cleanup. Previously built a membership platform serving 10,000 members and 500 agents that processes 15,000–20,000 transactions a month. Ships with agentic AI workflows in Claude Code and Codex using custom subagents.

TECHNICAL SKILLS

Languages: C#, TypeScript, JavaScript, Dart, Python, SQL, HTML/CSS

Frontend: React, Next.js, TanStack Query, TanStack Router, Zustand, Zod, Tailwind CSS

Mobile: Flutter, Riverpod, Drift (SQLite), Offline-First Sync

Backend: .NET 10, ASP.NET Core (Web API, MVC), Entity Framework Core, Node.js, NestJS, Express.js, Fastify, Prisma ORM, REST APIs, JWT Authentication, Webhooks, WebSockets, Socket.IO, BullMQ, Clean Architecture

AI & LLM: LLM API Integration, RAG, LangChain, MCP (Model Context Protocol), Prompt Engineering, Structured Outputs (Zod), Claude Code, Codex, Agentic Coding

Databases & Caching: SQL Server, PostgreSQL, MySQL, MariaDB, SQLite, Redis

Testing: xUnit, NUnit, Jest, Vitest, Playwright

DevOps & Tools: Git, Docker, Docker Compose, GitHub Actions (CI/CD), Cloudflare Workers, Cloudflare Tunnel, On-Premise Server Management

Security & Code Quality: VAPT Remediation, Burp Suite, Nessus, UpGuard, SonarQube, Static Code Analysis

PROFESSIONAL EXPERIENCE

Software Engineer | **Equicom** **Nov 2025 – Present**

C#, .NET 10, ASP.NET Core Web API & MVC, SQL Server

- Engineer and maintain RESTful APIs across an internal enterprise system in ASP.NET Core (.NET 10) using Clean Architecture (controller, service, and repository layers), keeping business logic decoupled so new endpoints are faster to add and easier to test.
- Optimize query-heavy modules backed by large SQL Server queries, reducing API response times.
- Secure API endpoints with authentication and authorization middleware, and remediate legacy-system vulnerabilities found through Vulnerability Assessment and Penetration Testing (VAPT) with Burp Suite, Nessus, and UpGuard.
- Resolved ~5,000 SonarQube maintainability issues, brought bugs and vulnerabilities to zero, and cut code duplications to under 100, improving maintainability and security compliance.

Full Stack Developer (Contract) | **Dulce Family Care** **Apr 2025 – Oct 2025**

Node.js, React, Prisma, Redis, BullMQ, Docker, GitHub Actions

- Built a membership plan platform with Super Admin, Agent, and Member portals serving 10,000 members and 500 agents across 2 branches, processing 15,000–20,000 transactions a month across payments, statements of account, and agent and member transfers.
- Automated commissions and revenue and cash flow reporting, cutting manual member checks from a full day to instant and giving owners real-time visibility into branch, agent, and employee performance.
- Developed the Dulce Funeral system with inventory tracking, sales recording, and a KPI dashboard, using Prisma transactions to atomically save clients, services, payments, and schedules so records stay consistent.
- Owned both systems from development to deployment, containerizing with Docker and shipping releases through GitHub Actions CI/CD to the client's on-premise server in 5–8 minutes.

Full Stack Developer Intern | **Pamantasan ng Lungsod ng San Pablo** **Mar 2025 – Jun 2025**

Node.js, Flutter, MariaDB

- Developed a responsive Flutter front end and a scalable Node.js back end for a new HRIS serving ~1,000 employees, contributing to its core employee management and leave tracking modules.
- Delivered MariaDB-backed RESTful APIs for employee records and leave requests.

PROJECTS

AI Support Assistant – Auto-Reply & Upsell Chatbot
LangChain, RAG, MCP (Model Context Protocol), LLM APIs

- Built an AI support assistant that auto-replies to customer inquiries for a business, grounding every answer in the business's own knowledge base through a RAG pipeline in LangChain.
- Added upsell recommendations to replies and connected the assistant to business tools and data through MCP, turning support conversations into sales opportunities.

Winksky – Photo Booth Platform (Commercial)
Flutter, Riverpod, Drift (SQLite), Node.js, Express.js, Prisma, PostgreSQL, Redis, Cloudflare Workers, React

- Built an offline-first Flutter app for Android and iOS, used by paying clients, covering capture, photo selection, printing, and QR sharing, storing data in Drift so booths keep running offline and sync when back online.
- Designed a Clean Architecture TypeScript API for auth, device licensing, sync, and media storage that deploys from one codebase to Express with PostgreSQL or Cloudflare Workers with D1 and R2.
- Integrated PayMongo QR payments with signature-verified webhooks, pushing confirmations to booths in real time via Redis pub/sub and WebSockets so paid sessions start without manual checks.
- Built a companion React app that turns a folder of event photos into one print-ready PDF, using Web Workers and the File System Access API to handle gigabytes of photos without freezing.
- Orchestrated custom Codex subagents (planner, QA, and reviewer) to plan, test, and review every change.

Remote Workspace – Self-Hosted Browser IDE (npm package)
TypeScript, React, Fastify, WebSockets, SSH, CodeMirror, xterm.js, Vitest, GitHub Actions

- Built and published an npm package that gives developers a VS Code-style workspace in any browser, including phones, with a code editor, search, Git diffs, and persistent SSH terminals.
- Engineered a Fastify backend that reaches machines over SSH/SFTP and streams terminals over WebSockets, sharing Zod schemas with the React client to validate every contract on both sides.
- Secured access with host-key verification, scrypt hashing, session expiry that cuts off open terminals, and Tailscale-only exposure, tested with Vitest on Linux and Windows in GitHub Actions CI.

POS – Multi-Branch Point of Sale System
NestJS, Prisma, PostgreSQL, Redis, Socket.IO, MinIO, React, TanStack Query, Jest, Docker

- Built a multi-branch POS in use by several businesses, with a NestJS API and React client covering sales, products and packages, batch-based inventory, bills, budgets, wallets, and cash flow dashboards.
- Implemented JWT authentication with role, user, and business-level permissions, and pushed live sales and inventory updates to every branch through Socket.IO gateways.
- Deployed with Docker Compose (PostgreSQL, Redis, MinIO) behind Cloudflare Tunnel, gating API startup on successful Prisma migrations, and covered core modules with Jest unit tests.

TapUp – NFC Business Card E-commerce (Freelance)
Xendit Payment Integration

- Implemented Xendit checkout payments for NFC business cards, covering invoices and wallet updates.
- Built idempotent payment confirmation webhooks to prevent duplicate charges and keep records accurate.

EDUCATION

Bachelor of Science in Information Technology (BSIT) **2025**
Pamantasan ng Lungsod ng San Pablo

CERTIFICATIONS

freeCodeCamp: Responsive Web Design, JavaScript Algorithms and Data Structures, Front End Development Libraries, Back End Development and APIs (2019–2021)