

Jeerawut Buayoy

Senior Full-Stack Engineer · Web · Backend · Mobile Apps · AI Systems

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PROFILE

Full-stack engineer with 8 years shipping web systems, Node.js and NestJS backend services, and mobile apps for enterprise, fintech, and Thai government clients. Most recently I owned mobile delivery on Easy Smart — Easy Money's online pawn shop app with 500K+ iOS & Android installs: eKYC, payments, the contract lifecycle, and the Easy Outlet marketplace. Alongside it I built the company's production LLM agents, including a self-hosted agent stack with in-house MCP tool servers, realtime Thai voice, and every model call routed through a self-hosted gateway. The work I care most about is the part teams usually skip: measured retrieval quality, output guardrails hardened by red-teaming, and model routing driven by real token and cost data.

SELECTED ACHIEVEMENTS

- Owned mobile delivery on Easy Smart, an online pawn shop app with 500K+ iOS & Android installs and a 4.8★ rating on Google Play — eKYC, payments, the full contract lifecycle, and the Easy Outlet marketplace, with zero-downtime rollouts via CodePush and a self-hosted NestJS OTA server.
- Built and ran a production Thai voice and text agent, customer-facing until August 2026 and the team's assistant since — a 17-service self-hosted stack, 17 in-house MCP tool servers (11 in Node.js), realtime voice through GPT-Live, 2,300+ pytest tests, and red-teamed output guardrails. Built on the open-source hermes-agent base.
- Took Thai chunk retrieval from MRR 0.790 to 0.923 and precision@1 0.742 to 0.871 over 124 graded queries by measuring the keyword leg and replacing it, and diagnosed a reranker spend-cap outage that had collapsed precision@1 from 0.74 to 0.10.
- Led two full-stack migrations at National Telecom within 24 months, took the team through ISO 29110 certification, and delivered the mobile application for Net Pracharat, the programme that brought fiber to 24,700 rural villages.

EXPERIENCE

Tungthanasin Co., Ltd. (Easy Money)

2022 — 2026

Mobile Developer · AI Engineer

Bangkok, Thailand

Owned mobile delivery on Easy Smart, the online pawn shop app, and built the production LLM agents that served customers directly.

- Built eKYC identity verification and secure payment flows carrying live customer transactions.
- Shipped online interest payment, principal repayment, and principal top-up on existing pawn contracts.
- Implemented real-time pawn status tracking with SMS and push notifications, plus free online asset valuation.
- Delivered the Easy Outlet marketplace for verified unredeemed items, and kept rollouts zero-downtime on both stores through a NestJS OTA update server I built and ran in-house.
- Built and ran "Anna", the company's Thai voice and text agent — first for customers, and since August 2026 for the team (detailed under Selected work).
- Rebuilt Thai retrieval on measurement, not guesswork: chunk MRR 0.790 → 0.923, and recall@5 44% → 84% in the agent memory store via trigram indexing.

STACK : React Native · TypeScript · Node.js · NestJS · CodePush · Python · MCP · Gemini · Docker

PTT Oil and Retail Business

2021 — 2022

Mobile & Backend Developer

Bangkok, Thailand

Contributed to Fillup, PTT OR's consumer app for fuel services and loyalty benefits.

- Shipped consumer-facing features during the rollout and integrated loyalty and transaction services across the mobile and backend teams.

STACK : React Native · Node.js · MongoDB

Full-Stack Developer & Team Lead

Led full-stack development and delivered five major applications for Thai government clients while modernising the team's technology stack twice.

- Migrated the team from PHP Laravel to .NET Core + Angular, then to Node.js + MongoDB, within two years.
- Delivered Net Pracharat, Digital Volunteer, CSMS, DIP and e-Inspect for five government clients.
- Scoped projects by resource, timeline, and business value; acted as technical consultant and mentor to the team.
- Managed the full infrastructure: application servers, databases, SSL, domains, SMTP, and SMPP.
- Led the team through ISO 29110 software development process certification.

STACK : React Native · Angular · Vue.js · Node.js · .NET Core · MongoDB · SQL Server

SELECTED WORK

Easy Smart Easy Money · iOS and Android Online pawn shop app with 500K+ iOS & Android installs — eKYC, payments, real-time contract tracking, and the Easy Outlet marketplace. React Native · TypeScript · CodePush · Node.js Google Play ↗ App Store ↗	2022 – 2026	Anna Easy Money · team assistant, customer-facing until Aug 2026 Thai voice and text agent for the Easy Money team — 17-service self-hosted stack, 9 in-house MCP tool servers in production, realtime voice through GPT-Live, red-teamed output guards. Python · Node.js · MCP · 9Router	2026
Thai hybrid retrieval The knowledge layer behind Anna's customer channel Thai hybrid retrieval — a Thai-analyzed keyword leg and a dense leg fused by RRF, then reranked. Chunk MRR 0.790 → 0.923 after migrating the store to MongoDB. Node.js · Python · MongoDB Atlas Search · voyage-4	2026	Gitra Independent · deployed Jira, GitLab, and Confluence synced into Cloudflare D1, queried in Thai by a tool-calling Gemini agent. Live on a custom domain. TypeScript · Next.js · Cloudflare Workers · D1	2026
custom-mcp Independent · published Three standalone MCP servers: cross-model delegation, image generation and inpainting, and a 265-method payments-API tool surface. TypeScript · MCP SDK v2 · Node.js	2026	CodePush OTA server Easy Money · internal platform Self-hosted OTA update server behind the mobile releases — NestJS API + admin console, per-app storage isolation, RBAC, deployed to Azure via GitLab CI. NestJS · TypeScript · Azure · GitLab CI	2026

SKILLS

Languages	TypeScript · JavaScript · Python · C# · SQL
Mobile & Frontend	React Native · Angular · React · Next.js · Vue.js · CodePush
Backend	Node.js · NestJS · Fastify · .NET Core · Laravel
AI / LLM	LLM agents · MCP · Tool calling · Hybrid RAG · Vector embeddings · Reranking · SSE streaming · Structured output · Retrieval eval · DSPy
Data & Infrastructure	MongoDB · PostgreSQL · SQL Server · SQLite FTS5 · Docker Compose · GitLab CI · Linux · Nginx · Cloudflare · Firebase · Azure App Service
Models in production	GPT-6 Sol · GPT-6 Luna · GPT-5.6 Terra · Gemini (2.5 / 3.x Flash) · DeepSeek Flash · gpt-live-1 (OpenAI Realtime) · gpt-transcribe · Whisper · Edge TTS · gpt-image-2.5 · FLUX · Seedream · Lyria

EDUCATION

Bachelor's degree, Software Engineering
North Bangkok University · Bangkok, Thailand

LANGUAGES

Thai · Native
English · Professional working