

Jerome Gao

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Summary

Full Stack Engineer with 10+ years of experience delivering web and cross-platform products end to end. Backend work spans Node.js, Nest.js, Express, ASP.NET Core, Python, Java and PHP, with PostgreSQL, MySQL and MongoDB. Client delivery includes React, Next.js, Vue/Nuxt and React Native. Experienced in API contracts, authentication, validation, asynchronous workflows, testing, containers, cloud delivery and operational visibility. New Zealand Post Study Work Visa valid until 02 Dec 2028.

Skills

Backend: Node.js, Nest.js, Express.js, ASP.NET Core, Python FastAPI, Java (Spring/Struts/Hibernate), PHP, REST APIs, GraphQL, WebSocket

Databases: PostgreSQL, MySQL, MongoDB, Entity Framework Core, Prisma, Mongoose

Frontend & Mobile: React, Next.js, TypeScript, JavaScript, Redux, Zustand, React Native, Expo, Vue/Nuxt, HTML5, CSS3

Testing: Jest, React Testing Library, Playwright, Cypress, Vitest, xUnit, integration and E2E testing

Tooling & DevOps: Docker, GitHub Actions, Azure, AWS, GCP, Vercel, Git, Lerna, monorepos, structured logging, observability

AI Engineering: Gemini integration, schema-constrained workflows, Claude Code, Codex, Cursor

Experience

Full Stack Engineer, Te Tāwharau o te Whakatōhea Jul 2025 – Nov 2025

- Built board-game features using React Native, Expo, Supabase and PostgreSQL for a Te Reo Māori learning product.
- Delivered rooms, realtime turns, game state, scoring, and single-player and multiplayer modes across devices.

Frontend Engineer / Full-stack contribution, Carsome Apr 2021 – Nov 2023

- Delivered the Nuxt SSR public platform, CMS micro-frontends, shared TypeScript packages and operational workflows across the vehicle lifecycle.
- Built Nest.js inventory-service capabilities with MongoDB, Redis and Bull queues for check-in, transit, release, repair, stock take, QR actions and downstream integration.
- Worked across React, Vue 3, Angular.js and legacy PHP CodeIgniter systems while preserving clear ownership and independent release boundaries.
- Project records covered 200+ daily CMS users and more than 10,000 vehicles managed through the operational platform.

Software Engineer, Chuangliang Jul 2020 – Dec 2020

- Built Vue.js 2 and Element UI advertising workflows for Kuaishou, Douyin and Baidu integrations.
- Improved maintainability through shared form patterns, validation, linting and review conventions.

Software Engineer / Full-stack contribution, Pintec Jun 2017 – Feb 2020

- Built Node.js and Express API/BFF capabilities backed by MySQL for authentication, validation, KYC, risk profiling, portfolios, orders and rebalance workflows.
- Delivered React web, mobile web and React Native clients with approximately 80% business-logic reuse through shared Redux actions, reducers, selectors, API models and validation.
- Integrated specialist investment algorithms and partner-bank contracts while keeping the integration boundary explicit.
- Also delivered Buy It Mall, a Node.js, Express, MySQL and React commerce product for responsive web and mobile WebView clients.

- Full Stack Engineer**, Cmku / Jimubox Dec 2014 – May 2016
- Built Node.js and Express integration layers connecting web clients to Java services, plus React/Redux mobile lending flows and operational CMS tools.
 - Served separate mobile and desktop experiences through UA-aware routing and server-rendered templates.
- Full Stack Engineer**, Cnlive / HelpNow / Liuhe 2011 – 2014
- Developed Java full-stack applications with Spring, Struts, Hibernate and MySQL, including realtime dashboards and analytics.
 - Implemented HTML5 WebRTC voice/video calling with WebSocket integration to a C++ signalling service.

Independent Products

- Mealway – AI Meal Planning Product** 2026 – Present
- Built ASP.NET Core 10 Minimal APIs, EF Core, PostgreSQL, Firebase JWT, Gemini workflows and shared Next.js/Expo client contracts.
 - Added model selection, rate limiting, fallback handling, structured logs, Docker, Azure Container Apps, Key Vault, Supabase, Vercel and xUnit integration tests.
- RateEverything – Full-Stack Media Rating Platform** rating.ospreypulse.com
- Built a Next.js user app and admin CMS, Nest.js API, Python FastAPI administration service, shared PostgreSQL model, tests and CI/CD.

Education

- Master of Information Technology (Applied Computing)**, University of Waikato, New Zealand Jul 2024 – Nov 2025
- Bachelor of Information System Engineering**, National University of Defense Technology, China Sep 2009 – Dec 2012