

Bernard Sin Fat

FULL-STACK DEVELOPER

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Summary

Full-Stack Developer with 3+ years of experience in the Laravel/PHP ecosystem, specialising in building secure, scalable SaaS applications. Early adopter of **Agentic AI workflows (Claude Code / Roo Code)** to accelerate development cycles and enforce architectural rigour. Expert in architecting resilient backends (Laravel 12) and high-performance frontends (Vue 3 / Quasar) with a focus on data integrity, security-first API design, and automated quality assurance.

Technical Skills

- **Backend:** PHP 8.2+, Laravel 12 (Service Layers, Policies, Resources, Eloquent), Node.js, Express, RESTful API Design.
- **Frontend:** Vue 3, Quasar Framework, TypeScript, Pinia (State Management), Axios.
- **AI & Productivity:** Claude Code (Opus 4.6), Roo Code (Sonnet 4.5), GitHub Copilot, Vercel v0. Specialist in Agentic Development (automated refactoring, test generation, and context-aware coding).
- **Testing & DevOps:** PHPUnit, Playwright, Laravel Dusk, TDD, Git (Advanced branching/CI workflows).
- **Architecture & Database:** Database Design (ERD), RBAC (Spatie), Multi-tenant systems, 3-Tier Proxying, State Machines, MySQL, Redis.

Professional Experience

Nano Solutions | Perth, Australia **Laravel Developer – Full Stack**

Nov 2022 – Present

- **Pioneered Agentic AI Workflows:** Integrated **Claude Code** and **Roo Code** into the professional development lifecycle to automate complex refactors and enforce architectural consistency across a large-scale multi-tenant codebase.
- **Laravel Engineering:** Developed robust backend logic using Custom Middleware for request filtering, Eloquent API Resources for standardised JSON responses, and Service Providers to decouple core application logic from the framework.
- **Database Design & Optimisation:** Contributed to the conceptual and logical Database Design (ERDs) for core system modules; implemented high-normalisation standards, Advanced Eloquent Relationships (Polymorphic/Many-to-Many), and indexing strategies to support high-concurrency data requirements.
- **Architectural Rigour:** Engineered RESTful APIs using Laravel 11/12, implementing Service Layers, Policies, and API Proxying to ensure strict data isolation and security in a 3-tier environment.
- **Test Infrastructure Leadership:** Successfully convinced leadership to transition the QA suite from Laravel Dusk to Playwright to resolve GitLab CI/CD pipeline instability, resulting in a significantly more resilient and faster deployment cycle.
- **Modular UI Systems:** Developed frontend architectures using Vue 3, Quasar, and Pinia; created reusable component libraries and Design Tokens that standardised UI/UX across multiple platforms.
- **Security & Data Integrity:** Utilised Spatie (RBAC) to manage complex permissions and ensure strict data isolation across client organisations.
- **Legacy Modernisation:** Directed the modernisation of legacy features to modern Laravel standards, leveraging AI agents to assist in mapping complex service layers and updating global scopes.

- Contributed to foundational API routing and Eloquent model development while mastering TDD principles under senior mentorship.

Personal R&D Projects

Football Analytics Platform

- **The Challenge:** Extracting high-frequency data from European football sites protected by sophisticated anti-bot measures and highly brittle, dynamic DOM structures.
- **The Solution:** Engineered a distributed data pipeline using **Node.js** and **BullMQ** for robust job orchestration.
- **The Evolution:** Iterated through 5 architectural versions, culminating in a **3-tier monorepo** designed for high availability and low maintenance.
- **Key Innovations:** * Developed a **database-driven selector engine** that allows for real-time updates to scraping logic without redeploying code, effectively mitigating "selector brittleness."
 - Integrated **Playwright** with stealth plugins to bypass detection.
 - Utilised an **Agentic AI workflow** to rapidly architect the 3-tier proxy system, enabling the delivery of a production-grade infrastructure in a fraction of the traditional development time.

Time-Capsule Messaging Application

- **The Challenge:** Managing reliable, asynchronous message delivery across diverse global timezones while ensuring absolute data privacy.
- **The Goal:** A "Zero-AI" deep-dive project designed to solidify my foundational mastery of the **Laravel 12** and **Vue 3** ecosystem without automated assistance.
- **Key Technical Implementation:**
 - **Temporal Logic:** Implemented timezone synchronisation using **Luxon** and E.164 standardisation to ensure "time-capsule" messages unlock at the exact millisecond intended by the sender.
 - **Security First:** Configured **Laravel Sanctum** for SPA authentication and utilised **Signed URLs** for secure, temporary access to media assets.
 - **DevOps:** Manually scaffolded **CI/CD pipelines** and handled SSH-based deployments to **Laravel Cloud**, ensuring a comprehensive understanding of the full deployment lifecycle.

Education

- **Bachelor of Science (Computer Science)** | Edith Cowan University
- **Full Stack Web Development Certificate** | University of Western Australia

Referees

Professional references available upon request (Confidentiality preferred at this stage).