

Laurence Bautista

Full-Stack Engineer & CTO · AI/LLM Systems

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Summary

Full-stack engineer and CTO with 8+ years shipping production web, mobile and AI products. Built platforms used by **50,000+ students across 30+ schools**, a ride-hailing app with **20K+ monthly active users**, IoT systems running 2,000+ machines across 50+ branches, and clinic software handling **4,000 admissions a month**. Leads lean teams of 7–12 developers and designers. Specializes in Ruby on Rails, React and React Native, and LLM applications (RAG, AI agents, local LLMs). Top 1 passer, 2019 DICT ICT Proficiency Examination.

Technical Skills

- **Languages:** Ruby, TypeScript, JavaScript, Python, PHP, C#, Rust, Kotlin, SQL
- **Backend:** Ruby on Rails, Node.js, Express, Laravel, REST APIs, WebSockets, background jobs, multi-tenancy, auth
- **Frontend:** React, Next.js, Vue.js, Hotwire (Turbo & Stimulus), Tailwind CSS, shadcn/ui
- **Mobile:** React Native, Expo, SwiftUI, Kotlin (native Android), IoT hardware integration, push notifications, App Store & Google Play releases
- **AI / LLM:** RAG, AI agents & orchestration, tool/function calling, embeddings & vector search, Ollama & local LLMs (Qwen), speech-to-text, summarization
- **Data & Cloud:** PostgreSQL, MySQL, Redis, Supabase, AWS (EC2, RDS, S3), DigitalOcean, Docker, Nginx, GitHub Actions CI/CD

Professional Experience

Software Developer — Codeblu Development · Sep 2025 – Present

- Develop [BluOps](#), a US SaaS client portal for agencies (Laravel, Vue.js, PostgreSQL) that syncs with ClickUp and FreshBooks, with branded client portals, intake forms, role-based permissions, and time and billing sync.

- Deliver invoicing, billing, accounting and appointment-scheduling modules comparable to FreshBooks, QuickBooks and leading scheduling platforms.
- Build LLM-powered features for client products, including RAG pipelines, AI agents with tool calling, and speech-to-text transcription with automated summarization.
- Also develop **CVH International** (Next.js, Supabase) and **LandmarkOps** (Ruby on Rails, PostgreSQL).

Lead Developer — Nodalsense · Aug 2023 – Present · *Part-time*

- **Quicklean Labavendo (IoT)**: built the platform connecting **2,000+ washers and dryers across 50+ branches** nationwide, each with its own chip, with real-time machine monitoring and pulse control for wash and dry cycle durations.
- **Busbay**: lead development of the bus operations platform running in production at **Five Star Bus**, covering passenger booking, trip operations and cargo management, with payment gateway and IoT integrations (Ruby on Rails, React Native).
- **ByteLift Education (LMS)**: built a learning platform used by multiple schools, featuring **JAIKEN**, a RAG-based AI assistant that helps teachers build modules, exams and student evaluations, plus video conferencing and digital textbooks (Ruby on Rails, React Native).
- **Smart Locker (IoT)**: built an IoT locker system with a Rust backend and a native Android app in Kotlin that controls the locker hardware.

Chief Technology Officer — Unla La Corporation · Apr 2023 – Present (*lead developer since 2020*)

- Built [Unla La](#) from scratch as its original developer, then joined as CTO to own architecture, infrastructure and a lean team of 7–12 developers and designers.
- Scaled it into a ride-hailing and delivery platform for cars, SUVs, motorcycles and tricycles with real-time driver tracking, reaching **20K+ monthly active users** on the [App Store](#) and [Google Play](#).
- Delivered four apps — customer, driver, merchant and admin — on one Ruby on Rails and Node.js backend, with frequent production releases.
- Built [Sky Pasada](#), the flight-booking app and admin CMS for a regional airline flying circuit routes across Northern Philippines, including Basco, Laoag and Tuguegarao ([App Store](#), [Google Play](#)).
- Run all production systems on AWS (EC2, RDS, S3) and DigitalOcean.

Senior Software Engineer (Consultant) — Skin Station · Jul 2022 – Present · *Part-time*

- Replaced Yellow.ai with an in-house AI support chatbot using conversation workflows and RAG (Ollama, Qwen), with handoff to human agents when the AI can't resolve a query; it supports **20 agents handling 1,000+ customer messages a day**.
- Built the SkinStation marketplace and booking app ([web](#), [App Store](#), [Google Play](#)) in React Native Expo.
- Built an external point-of-sale app with Node.js and React Native.

Software Development Consultant — Asian Institute of Management · Jul 2022 – Jun 2025 · *Part-time*

- Maintained [aim.edu](#) and developed the student management and grading system.

Software Engineer (Team Lead) — CrewBloom · Sep 2022 – Nov 2023

- Led the development team building **CrewHub**, the candidate and client management platform for [CrewBloom](#), a US remote-staffing agency, using React and Node.js.
- Shipped public candidate registration and onboarding workflows, supporting 200+ candidates on the platform.

Senior Software Engineer — Techfactors Inc. · Oct 2021 – Apr 2023 (*Technology Consultant, Oct 2021 – Feb 2022*)

- Led the development team for the company's education suite, used by **50,000+ students across 30+ schools**: an LMS and exam platform (React, React Native, .NET C#), the **ONTRAQ** attendance system and the **Parentline** parent app (Ruby on Rails, React Native).
- Migrated a production project from AWS to the company's internal cloud platform.
- Trained new developers in Git and Agile practices and created the team's standard React.js project template.

Senior Software Engineer — Bliimo Technologies · Sep 2020 – Feb 2022 (*Consultant, Sep 2020 – Feb 2021*)

- Led the team building **MBC Papremyo** ([App Store](#), [Google Play](#)): designed the Ruby on Rails backend and guided the React Native app.
- Built a live-streaming and subscription platform for a media brand (Rails, React Native) with real-time messaging, event booking, a marketplace and payment integration.
- Built an advertising-transaction system for **The Huddle Room** covering TV, radio and print campaigns, with reporting and ERPNext sync.

- Delivered client projects for **Philippine Veterans Bank** (election voting system), **Magnolia Chicken** (admin security), **Easytrip** (app stabilization), **Goldilocks** (online ordering) and **Nike Park Access** (Magento).

Selected Freelance Projects

- **MyHealthyWay — clinic management system:** serves 700+ client companies and about 4,000 patient admissions per month, with patient queueing, service stations, inventory, online booking with result tracking, invoicing and reports.
- **Cash Funds — lending management system:** runs operations for 7 branches and 100+ employees, with role-based loan workflows, collections, dashboards and reports.
- **YLEC — sales system:** supports 2 branches and 50+ employees, with order management, analytics and J&T Express import/export integration.
- **Student dropout prediction (machine learning):** Naive Bayes model that predicted student dropout from profile data and past grades.

Early Career

- **Software Engineer — Fennecteck IT Services** · Nov 2019 – Jan 2020
- **Full-Stack & Mobile Developer (Team Lead) — RNR Digital Consultancy** · May – Nov 2019: promoted from intern; led a team that shipped a loyalty app for an oil and gas company in one month; built a Node.js layer that exposed a school web app as an API, doubling team productivity on its mobile version.
- **Web Developer — AEB Pharmed** · Jun – Oct 2018: built the company's attendance and payroll system.
- **Student Assistant — University of Luzon** · Jan 2017 – Jun 2018: built ML research systems for the Dean of Computer Studies and joined research on IoT threat detection for smart agriculture.

Certifications & Awards

- **Top 1 Passer**, DICT ICT Specialist Proficiency Examination (Programming), 2019

Education

B.S. Computer Science — University of Luzon, Dagupan City · 2015 – 2019