

BUI DUC TRI

BACKEND DEVELOPER

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ABOUT ME

Proactive **Backend Developer** with **2+ years of hands-on experience** building backend microservices, **loyalty & reward platforms**, and business web applications. Solid foundation in **Java (Spring Boot 3)**, **TypeScript (NestJS, Next.js 14)**, **PostgreSQL**, and **Apache Kafka**. Experienced in working directly with clients and external partner teams to clarify business requirements, deliver rapid MVPs, and implement reliable transaction flows using structured agentic AI workflows.

TECHNICAL SKILLS

Languages & Frameworks:	Java (Spring Boot 3), TypeScript, JavaScript, Node.js (NestJS, Express.js), Next.js 14, React
Backend & Domain:	Microservices, RESTful APIs, Webhooks, Apache Kafka, BullMQ, Loyalty & Reward Systems (Point Ledger, Lucky Draw, Voucher Redemption), Transactional Outbox, Idempotency
Databases & Caching:	PostgreSQL (Multi-tenant, Serverless Neon), MySQL, Redis (Distributed Locks, Cache-Aside), Prisma ORM, TypeORM, Flyway
Integrations & DevOps:	Salesforce CRM, MoMo Payment Gateway, UrBox API, Docker (Multi-stage), CI/CD Pipelines, AWS (Copilot), Vercel, Git, Postman
Agentic AI & Testing:	Claude Code, Codex, MCP Servers (Context7, Playwright MCP), Custom Rules & Agent Skills, Jest, React Testing Library, MSW

WORK EXPERIENCE

TESO Global | Backend / Fullstack Developer

Nov 2025 – Present | Ho Chi Minh City

- **Direct Client & Partner Collaboration:** Acted as a technical point of contact alongside the Tech Lead within a 7-member squad—working directly with clients and partner engineering teams (**VitaDairy**, **UrBox**, **MoMo Payment Gateway**, **Salesforce CRM**) to clarify business workflows, align API contracts & webhook schemas, and resolve integration issues during UAT and production rollout.
- **Loyalty, Coin Accumulation & Lucky Draw Services:** Developed and maintained backend microservices (**NestJS**, **Java Spring Boot 3**, **Apache Kafka**) for enterprise loyalty and gamification campaigns—handling user coin accumulation, lucky draw turns, affiliate tracking events, **MoMo** reward transfers, and **Salesforce** member data synchronization.
- **Reward Redemption & Data Consistency:** Implemented safe point deduction, gift quota tracking, and automated fallback backup-voucher issuance using the **Transactional Outbox pattern**, idempotency keys, and **Redis distributed locks** (cache-aside), ensuring data consistency across multi-tenant **PostgreSQL** databases and preventing race conditions during peak campaign traffic.
- **Production Planning MVP – Solo Delivery & Direct Client Feedback (SNY VINA):** Worked directly with client stakeholders (gathering requirements, demonstrating MVP iterations, and incorporating live factory feedback) to independently build and deploy a production planning web app (**Next.js 14**, **Prisma 5.22**, **PostgreSQL on Neon**, **Vercel**) via an AI-assisted workflow—replacing 4 manual Excel files across **40 weaving machines** with **2-step transactional Excel imports** (Preview & Confirm), **PostgreSQL table-level locking**, and **optimistic concurrency control** (**409 Conflict**).
- **Agentic AI Workflow & MCP Automation:** Orchestrated **Claude Code** and **Codex** agents using custom **Rules & Skills** integrated with **Context7 MCP** (for grounded, up-to-date documentation to prevent code hallucinations) and **Playwright MCP** (for automated E2E browser testing), accelerating boilerplate generation, Flyway SQL migrations, and feature delivery by **~30%**.

Viec.Co Corporation | Fullstack Developer

Jul 2025 – Sep 2025 | Ho Chi Minh City

- **Fullstack Web Development & Asset Optimization:** Built and maintained a candidate registration platform using **Next.js**, **React**, and **Node.js** (consolidating 100% of candidate onboarding data into a centralized system) and optimized the image processing/upload pipeline to reduce server payload and data transfer load by **45%**.
- **Containerization & Quality Assurance:** Streamlined **Docker multi-stage builds** to cut container image size by **20%**, and wrote unit/integration tests using **Jest**, **React Testing Library**, and **MSW** to achieve **90% test coverage** with zero regression on core onboarding flows.

Hopper Solution | Backend Developer (Freelance)

Feb 2025 – Jun 2025 | Ho Chi Minh City

- **Financial SaaS Backend (FIORA):** Designed and built core backend services and RESTful APIs using **Node.js**, **PostgreSQL**, and **Prisma ORM**; structured relational schemas, query optimizations, and composite indexes to ensure financial ledger integrity.
- **Cloud Deployment & Security:** Deployed containerized services via **AWS Copilot**, configured **Redis** caching layers, and integrated secure **Firebase** token-based authentication.

Unicourse | Backend Developer

Jan 2024 – Dec 2024 | Ho Chi Minh City

- **API Performance & Latency Optimization:** Implemented **Redis cache-aside** strategies and indexed high-frequency queried columns, cutting average API response latency by **45%** under **500+ concurrent requests**.
- **Message Queue Reliability & CI/CD:** Refactored asynchronous email and notification pipelines using **BullMQ** with exponential backoff retry and Dead Letter Queues (DLQ), reducing job failure rates from **~15% to under 1.5%**; built and maintained automated CI/CD pipelines with Docker multi-stage builds.

EDUCATION

FPT University

Jan 2020 – Dec 2024

B.S. in Software Engineering | GPA: 3.33 / 4.0

Focus: Distributed Systems, Algorithms, Database Design, Security.

Languages: Vietnamese (Native) | English (Professional Working)

HONORS & AWARDS

- **Top 1** – Rocket Boost Entrepreneurial Competition | FPT (Nov 2024)
- **Top 10 Teams** – 50M VND Scholarship Startup Project | FPT
- **5x Honorable Student of the Semester** | FPT (2023–2024)