BUI CHI DUNG

Software Development Team Leader

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SUMMARY

Backend-focused software engineer with 6+ years of experience building scalable web applications, business systems and API integrations. At Excel Technologies I work on enterprise systems as a Software Development Team Leader, with a focus on backend architecture, RBAC and data scoping, automation workflows and RESTful APIs. I care about code quality, testing, maintainability and security, and I use AI coding tools inside a human-reviewed engineering workflow.

SKILLS

Backend	Node.js, NestJS, Express.js, TypeScript, JavaScript, Python, Laravel (PHP), RESTful API, Webhook integrations, Payment gateways
Databases	PostgreSQL, MongoDB, MySQL, Redis, TypeORM, Prisma
Messaging & realtime	RabbitMQ, Bull, Socket.io, Firebase
Architecture	Modular monolith, RBAC and data scoping, transactional outbox, queue-based processing, API design
Cloud & DevOps	Docker, Nginx, Jenkins, AWS (S3, EC2), Cloudflare R2, GCP
Testing	Jest, Vitest, Supertest, Playwright, integration and unit testing
AI	OpenAI API, Claude API, AI agents, workflow automation
Tools	GitHub, GitLab, Bitbucket, Jira, ClickUp, Trello, Redmine

AI-ASSISTED ENGINEERING

- Use an AI coding assistant for code exploration, implementation, refactoring, test generation and documentation, working from written project rules.
- Keep a human in the loop: tests, lint and type checks are run and the diff is reviewed before any change is committed; nothing is committed, pushed or deployed without my explicit approval.
- Apply the same AI-assisted workflow on the E-Budget project.
- Practical experience with the OpenAI API and Claude API as an integrator and user of existing tools, not as a builder of an AI agent platform.

EXPERIENCE

Excel Technologies

July 2024 – Present

Current role: Software Development Team Leader. Enterprise business systems.

E-Budget · since February 2026

An internal system for managing a corporate group's accounting, finance and HR data, replacing manual Excel workflows. My contribution:

- Backend engineering: business logic and backend modules across budgeting workflows, master data, templates, input norms and reporting.
- Architecture and data consistency: technical design decisions on a modular backend, transaction boundaries and reliable multi-table writes.
- Access control and data security: authorization and data-scoping mechanisms, and controls for sensitive salary data.
- Data processing and automation: Excel import/export, budget recalculation and background job processing.
- Engineering quality: validation, error handling and data-integrity safeguards for complex enterprise workflows.

ESG System · February 2026 – June 2026

A backend platform for entering, calculating, approving and reporting sustainability (ESG) indicators per operating facility and period.

- Designed relational database schemas for ESG reporting and data-entry workflows.
- Developed RBAC-based modules: employee, role and permission management, KPI, coefficient and target configuration, and operational unit management.
- Built Excel-based data import and migration for bulk onboarding of ESG data.
- Developed notification and workflow backend services supporting approval pipelines.
- Built APIs and backend logic for reporting, aggregated data views and detailed entry tracking.

Salesportal · December 2024 – May 2025

- Backend of an enterprise sales portal for orders, customers, pricing, discounts and approvals, with ERP integration (NestJS, PostgreSQL, MongoDB, Redis, Bull).
- Designed and implemented role-based access control across business units and organization hierarchies, centralizing access-control logic for maintainability.

Digisales

- Implemented task management and product quality feedback processing, with recurring tasks generated automatically by cron jobs and scheduled background processes.

Software Engineer · edvin Inc March 2022 – March 2024 · Ho Chi Minh City

- Built backend solutions with Node.js and Express for a web-based tutoring platform.
- Integrated ArangoDB, Redis and MySQL; designed RESTful APIs with cross-functional teams, documented with Swagger, plus gRPC for communication between microservices.
- Used AWS EC2 and S3 for scalable infrastructure and deployment; researched and adopted new tools to improve development processes.

Software Engineer · Hybrid Technologies October 2020 – March 2022 · Ho Chi Minh City

- Sale Management System (internal): developed and maintained software with Python and Odoo 13 on PostgreSQL; took part in code reviews and debugging sessions.
- Spicebox Lab, Instagram influencer analysis: used the Instagram Graph API and Basic Display API, and Selenium for scraping and automation of profile, photo and video data.

EDUCATION

Bachelor in Computer Science · VNUHCM – University of Science Graduated May 2021

Thesis: "Speaker Verification on Embedded System".