

Nguyen Trung Nguyen

Full-Stack Developer — AI Integration

0394757329 | nguyentrungnguyen.dev@gmail.com | GitHub | Portfolio | Go Vap, Ho Chi Minh City

Objective

Full-Stack Developer with hands-on experience in distributed systems, AI-powered applications, and cloud-native deployments. Seeking a Backend or Full-Stack Engineer role where I can contribute to scalable products while deepening expertise in software architecture and LLM integration.

Education

Industrial University of Ho Chi Minh City (IUH)

2022 – Present

Bachelor of Engineering in Software Engineering · GPA: 3.2/4.0

Projects

NexaTech E-Commerce Platform | GitLab · Team of 4

Mar 2026 – Jun 2026

Role: Full-Stack Developer · AI Engineer · DevOps

- Owned the Product domain (catalog, category, brand, review, wishlist) using CQRS, MongoDB, and Redis within a polyglot microservices architecture spanning Java, Node.js, and Python.
- Designed a distributed system combining Event-Driven, Space-Based, and Pipeline Architectures to enable scalable, decoupled business workflows across 10+ microservices.
- Built the platform's AI layer: LangGraph multi-agent system, MCP Orchestrator, and domain-specific MCP servers for intelligent tool routing and workflow delegation.
- Developed a real-time user-behavior pipeline with Kafka and Redis feeding a product recommendation service built with FastAPI and MongoDB.
- Automated infrastructure and deployment via GitLab CI/CD, Terraform, Ansible, and AWS EC2; frontend deployed on Vercel.

Tech Stack: Java · Spring Cloud · FastAPI · Kafka · MongoDB · Redis · React · LangGraph · Terraform · AWS

Chatly Messaging Platform | Live · GitHub · Team of 4

Feb 2026 – May 2026

Role: AI & Full-Stack Developer

- Built an AI assistant with LangGraph, Groq LLM, Qdrant, and MCP supporting group-chat mentions, message summarization, AI reminders, polls, and context-aware Q&A.
- Implemented RAG workflows with FastAPI: session persistence, streaming responses, and contextual retrieval over conversation history stored in Qdrant.
- Developed real-time messaging with WebSocket (JWT auth, group chat, GIFs, stickers, voice messages) and cross-platform parity across React web and React Native mobile.
- Delivered CI/CD pipeline with GitHub Actions, Docker Compose, and LangSmith tracing; Android distributed via EAS Build; backend deployed on AWS EC2.

Tech Stack: Spring Boot · FastAPI · LangGraph · Qdrant · MongoDB · PostgreSQL · Redis · React · React Native · AWS

Aurora Hotel Management System | Live · GitHub · Team of 4

Sep 2025 – Dec 2025

Role: Full-Stack Developer · DevOps · AI Integration

- Built a RAG chatbot using LangChain4j, Gemini API, and pgvector with WebSocket streaming, answering guest questions in real time from hotel documents.
- Developed a Document Management module for admins to upload files and metadata, feeding directly into the chatbot's RAG knowledge base.
- Built a News Management module with a TipTap rich-text editor for hotel announcements, decoupled from the RAG pipeline.
- Deployed full stack to Railway using Docker multi-stage builds.

Tech Stack: Spring Boot · LangChain4j · Gemini API · pgvector · PostgreSQL · Docker · Railway

Personal Portfolio Website | Live · GitHub

Aug 2025 – Present

Role: Frontend Developer · AI Integration

- Designed UI with a retro/pixel-art system using Claude Design and a Pac-Man-inspired system design theme.
- Integrated an AI Q&A assistant directly into the page, provided by Groq via Vercel AI SDK v7, with AG-UI-style tool calling functionality, allowing interaction with the portfolio interface.
- Integrated contact form (Nodemailer/Gmail), Vercel Speed Insights, and Framer Motion animations.
- Achieved 95+ Lighthouse performance scores and deployed the application on Vercel with automated updates from GitHub.

Tech Stack: Next.js · React · TypeScript · Tailwind CSS · Framer Motion · Vercel AI SDK · Groq · AG-UI · Vercel

Skills

Languages: Java, Python, TypeScript

Frontend: React, React Native (Expo), TailwindCSS

Backend: Spring Boot, FastAPI, NestJS, Node.js, WebSocket, REST APIs

Databases: PostgreSQL, MongoDB, Redis, Qdrant, pgvector

AI & LLM: LangGraph, MCP, RAG, Gemini API, Groq, LangChain4j, AG-UI, Vercel AI SDK

Cloud & DevOps: Docker, GitHub Actions, GitLab CI/CD, Terraform, Ansible, AWS, Vercel

Tools: Git, Postman, LangSmith

English: TOEIC Listening & Reading 625

Certifications

CS50's Introduction to Computer Science — Harvard University (edX)

Dec 2023