

Viet Nguyen Ngo

Fullstack Developer

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OBJECTIVE

I am a fullstack developer with strengths in Java Spring Boot, frontend ReactJS, database Postgresql, SQL Server and knowledge of CI/CD, Docker, Kubernetes and Cloud. My goal is to join an innovative development team, applying new technologies to build stable, scalable and efficient software systems.

WORK EXPERIENCE

FPT Software

April 2024 - October 2024

Personal Project – Real-Time Chat Application

Team Project – FPT University Student Management System

BACKEND DEVELOPER

- Participated in the development of a scalable online course selling platform, focusing on backend functionality.
- Designed and implemented RESTful APIs using Java Spring Boot to handle core features such as user registration, course enrollment, order processing, and payment integration.
- Collaborated with frontend developers to ensure seamless data exchange and user experience.
- Optimized Postges SQL queries and database structure to improve system performance and response time.
- Applied unit testing and integrated test automation to improve code quality and reliability.
- Followed software development best practices including version control (Git), code reviews, and agile methodologies.
- Contributed to API security enhancement through authentication and authorization mechanisms.

TECH STACK: REACTJS, TAILWIND CSS, TYPESCRIPT, JAVA SPRING BOOT (MICROSERVICES), POSTGRESQL, DOCKER, WEBSOCKET, GIT

- Developed a full-stack real-time chat web application supporting one-on-one messaging with persistent chat history.
- Built a responsive frontend using ReactJS and Tailwind CSS, enabling a clean and user-friendly chat interface.
- Designed and implemented the backend with Java Spring Boot, structured as microservices for scalability and maintainability.
- Integrated WebSocket for bi-directional, low-latency communication between clients and server.
- Utilized PostgreSQL to store user accounts, message history, and metadata with optimized schema design.
- Containerized services using Docker, enabling consistent local development and deployment environments.
- Employed Git for version control and collaborated on features using GitHub workflows.

TEAM SIZE: 2 | TECH STACK: JSP/SERVLET, HTML, CSS, SQL SERVER, MVC ARCHITECTURE, GITHUB, DOCKER

- Developed a web-based system to manage student information, courses, and grades for internal university use.
- Built backend logic using JSP and Servlet, following the MVC architecture to separate concerns and improve maintainability.

Personal Project – Social Media Mobile App (Inspired by Locket & Threads)

- Designed frontend interfaces with HTML/CSS, allowing users (staff/admin) to create, view, edit, and delete student data.
- Integrated SQL Server to store and retrieve data with secure and efficient queries.
- Used GitHub for version control and collaboration with another team member, applying agile principles.
- Containerized the project using Docker for consistent development and deployment.

TECH STACK: REACT NATIVE, JAVA SPRING BOOT, AWS, DOCKER, GIT

- Built a cross-platform social networking app inspired by Locket and Threads, focusing on real-time photo sharing and short message interactions.
- Developed the mobile interface using React Native, implementing features such as user authentication, posting, commenting, following, and real-time updates.
- Designed and implemented scalable RESTful APIs with Java Spring Boot, handling user management, media storage, and social interactions.
- Deployed backend services on AWS (EC2, S3, RDS) with Docker, ensuring high availability and scalability.
- Integrated real-time notifications and live feed updates to enhance user experience.
- Utilized Git for version control and agile development process.

Multiple Camera Tracking Search System

TEAM SIZE: 4 | TECH STACK: REACTJS, TAILWINDCSS, JAVA SPRING BOOT, FASTAPI, POSTGRESQL, QDRANT, DOCKER, GITHUB, TENSORFLOW, PYTORCH

- Developed an AI-powered system to track and search individuals across multiple cameras. The system supports person re-identification and multi-camera tracking using deep learning models.
- Built an interactive frontend using ReactJS + TailwindCSS for displaying live tracking and search results.
- Developed REST APIs using Spring Boot and FastAPI to handle image ingestion, feature extraction, and identity matching.
- Applied PyTorch and TensorFlow to train and deploy deep learning models for object detection and feature embedding (e.g., ResNet, YOLO, Deep SORT).
- Used Qdrant vector database to perform high-performance vector similarity search across embeddings.
- Managed containerization and service orchestration via Docker and GitHub workflows.
- Contributed to model evaluation, system testing, and pipeline optimization.

EDUCATION

August 2022 - September 2025

SOFTWARE ENGINEERING

FPT University

SKILLS

Java Spring Boot

Proficient in building scalable backend services using Spring Boot. Experienced in designing RESTful APIs, working with JPA, Spring Security, and microservice architecture.

PostgreSQL & SQL Server

trng experience in relational database design, query optimization, and stored procedures. Proficient with both PostgreSQL and SQL Server in production environments.

ReactJS + Tailwind CSS

Developed responsive and dynamic user interfaces using ReactJS and Tailwind CSS. Skilled in state management, component reusability, and UI optimization.

Docker + Kubernetes

Proficient in containerizing applications using Docker.
Experienced in writing Dockerfiles, managing containers, and
deploying with Docker Compose in multi-service systems.

Git & CI/CD

Skilled in version control with Git, including branching
strategies. Familiar with CI/CD pipelines for automated testing
and deployment via GitHub/GitLab.

Postman & Swagger

Experienced in API development and testing using Postman for
creating, validating, and automating RESTful API requests.
Skilled in utilizing Swagger (OpenAPI) for documenting APIs,
ensuring clear and interactive communication between backend
and frontend systems.

AWS & Cloud Deployment

Basic experience in deploying services on AWS (EC2, S3, RDS).
Familiar with cloud-based app hosting and scaling.

Soft skills

Teamwork & Problem-Solving: Able to collaborate effectively in
team environments, resolve conflicts, and contribute to
achieving shared goals.
Research Skills: Capable of independently researching technical
issues, exploring new technologies, and applying findings to
real-world problems.
Have knowledge of AI machine learning and deep learning

ACTIVITIES

INTERESTS

ADDITIONAL INFORMATION

2022 - 2025
FFC
members

Participate in school and club soccer
tournaments

Artificial Intelligence, Real-time
Applications, System Design, Startup
Products, Open Source Contributions.
Especially applying AI to software.

Able to quickly adapt to new
technologies.
Proficient in working under Agile/Scrum
methodology
Willing to relocate and work in fast-paced
environments
Strong Git & Docker workflow practices
(DevOps-minded)