

Tram Huu Duc

<https://github.com/tramhuuducvn>

Email: tramhuuduc.vn@gmail.com

Mobile: 0375157298

SUMMARY

Software engineer with 2+ years of experience in building backend services using Spring Boot and developing mobile applications with React Native. Interested in clean code, API design, and learning from collaboration and testing practices.

EDUCATION

- **University of Science**

Software Engineering; GPA: 3.2

Ho Chi Minh City

September 2019 – July 2023

EXPERIENCE

- **KMS Technology**

Software Engineer

Ho Chi Minh City

September 2023 – Present

- **RESTful API Development:** Designed and implemented RESTful APIs for internal services and third-party integrations, ensuring compliance with insurance domain standards.
- **Spring AOP Logging:** Implemented centralized logging using Spring AOP, capturing method execution details across services without polluting business logic.
- **Database Design & Optimization:** Worked with relational databases (e.g., PostgreSQL/MySQL), writing complex queries and optimizing schema for performance and scalability.
- **Insurance Domain Logic:** Translated business requirements into backend logic involving premium calculations, policy underwriting rules, and claims validation.
- **BDD & Unit Testing:** Wrote tests using Cucumber and JUnit to validate business logic and maintain high code coverage; worked with QA to define test scenarios.
- **Code Review & Collaboration:** Reviewed code with a focus on verifying business logic correctness and functional alignment with requirements, contributing to overall code quality and maintainability.
- **Cloud:** Integrated backend services with cloud platforms such as Azure AI Search, EventHub, CosmosDB,... to enhance scalability and intelligence in enterprise apps.
- **DevOps & CI/CD Pipelines:** Participated in configuring deployment pipelines for backend services using GitHub Actions.

- **VNG Corp**

Software Engineer

Ho Chi Minh City

May 2022 – March 2023

- **TypeScript Migration:** Migrate the React Native project from JavaScript to TypeScript, improve code maintainability and type safety.
- **Component Reusability:** Reduced code duplication and increased maintainability by building reusable and modular UI components.
- **Performance Optimization:** Improved rendering performance using image caching, thumbnail previews, and data caching techniques to reduce load times and memory usage.
- **React Reanimated Integration:** Implemented smooth and performant animations using React Reanimated for a better user experience.
- **Firebase Push Notifications:** Integrated Firebase Cloud Messaging (FCM) to support real-time push notifications.
- **State Management:** Managed complex application state using Redux Toolkit and MobX for scalable and reactive state handling.
- **REST API Integration:** Developed features through RESTful API integration and collaborated with designers for accurate UI implementation.

PROJECTS

- **Attorney History:** Developed a system to search and retrieve attorney or law firm information using Azure AI Search for enhanced querying and indexing capabilities.
- **Authorization Server:** Built an OAuth2-compliant Authorization Server using Spring Boot.
- **File Tracking System:** Designed and implemented a microservice to monitor and log the movement of files across systems, ensuring traceability and auditability.
- **MyVNG Application:** Created an internal web and mobile tool for VNG employees, serving functions similar to an HR portal, including personal information management and company services access.
- **Mentorus Application:** Capstone graduation project - Developed a real-time chat application similar to Zalo, featuring messaging, user authentication, and contact management.

SKILLS

- **Languages:** Java, JavaScript, TypeScript, SQL
- **Backend:** Spring Boot, JPA, REST APIs, OAuth2, AOP, JUnit, Mockito
- **Frontend:** React, React Native, Redux Toolkit, MobX
- **Cloud & DevOps:** Azure (AI Search, EventHub, CosmosDB), GitHub Actions
- **Databases:** MySQL, CosmosDB
- **Testing:** BDD (Cucumber), Unit Testing, Code Coverage, Manual Code Review