

# Tram Huu Duc

<https://github.com/tramhuuducvn>

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## SUMMARY

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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

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- **University of Science**

*Software Engineering; GPA: 3.2*

Ho Chi Minh City

*September 2019 – July 2023*

## EXPERIENCE

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- **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

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- **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

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- **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