Tran Minh Duc Pham

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Education

University of Strasbourg   Strasbourg, France
Bachelor's degree in Computer Science   September 2022 – July 2025

During my three years of study, I learned the fondamental principles of computer science such as networking, security, database systems, programming languages, artificial intelligence

High School for Gifted Students   Hanoi, Vietnam
Speciality in Mathematics   September 2016 – July 2020

Skills & Interests

Front-End : HTML, CSS, JavaScript, ReactJS
Back-End : Java, Spring Boot, Spring Data JPA, Spring Security
Databases : Oracle, PostgreSQL, MySQL
Languages : Vietnamese, English, French

Experience

Strasbourg Lab   Strabourg, France
Intern Backend Game Developer   December 2025 – June 2025

During my Internship, I developed comprehensive data model utilises PostgreSQL for multiplayer gaming application with user management and game mechanics. In this role, my responsibilities included :

- Designed, developed and optimized SQL queries utilizing Common Table Expressions (CTEs) , subqueries, window functions, aggregate functions and CASE statements for advanced data transformation and reporting
- Created and maintained database objects including stored procedures , triggers, views, temporary tables and user-defined functions to support game logic implementations
- Executed robust data manipulation and definition operations using DML/DDL statements, enforced data integrity through proper use of primary and foreign key constraints and implemented efficient JOIN operations for relational datasets.
- Designed and implemented a real-time client–server communication system using Godot 4 (GDScript) for the client and Node.js with WebSockets for the server.
- Developed a modular WebSocket client in Godot that handles connection management, message sending, JSON parsing, and emits signals for asynchronous data handling.

Personal Projects

My Money – Personal Finance Manager   August 2025
Link Github : https://github.com/Kawaki243/my-money-application
Link Demo   : https://mymoney243.netlify.app/
- Developed a full-stack web app for managing incomes, expenses, and categories.
- Built a Spring Boot REST API backend with modular architecture, implementing CRUD operations for users, categories, income, and expenses.
- Implemented JWT-based authentication and Spring Security for secure user login, role-based access, and token validation.
- Designed a React + TailwindCSS frontend with reusable and responsive components and user-friendly UI.
- Added Excel export and automated email reporting with scheduled tasks.
- Managed relational data in MySQL (dev) and PostgreSQL (demo) with Hibernate ORM.