

Tran Minh Duc Pham

-  <https://personal-portfolio243.netlify.app/>
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Education

University of Strasbourg

Bachelor's degree in Computer Science

Strasbourg, France

September 2022 – July 2025

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

High School for Gifted Students

Speciality in Mathematics

Hanoi, Vietnam

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 Game Studio

Intern Backend Game Developer

Strasbourg, France

December 2024 – 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.