# Pham Tien Anh

## Backend Developer

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## OBJECTIVE

I specialize in building scalable systems using NestJS, Spring Boot, and microservices. I have experience in DevOps practices, including CI/CD pipelines, AWS infrastructure, and Docker, and I aim to combine backend expertise with automation and system optimization (DevOps) to build high-performance, reliable solutions.

## EDUCATION

**HCMC University of Technology And Education – HCMUTE**                    10/2022  -  Present

*Software Technology*

*GPA: 3.62/4.0 — Recipient of University Academic Scholarship (2 times)*

## SKILLS

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|---|---|
| Programming Languages | Java, JavaScript, TypeScript |
| Frameworks & Technologies | Nest JS, Spring Boot, NodeJS/Express JS, ReactJS |
| Database systems | PostgreSQL, MySQL, MongoDB, Redis, SQL Server. |
| Devops | Docker, AWS EC2, CI/CD Pipeline, SSH, Linux, Monitoring Systems,... |
| Other Technologies | MicroService, gRPC, MessageQueue (Rabbit MQ,...), Github/GitLab, TailwindCSS... |

## WORK EXPERIENCE

**GEEK Up**                    9/2025  -  Present

*Product Backend*

- **System Development:** Designed and developed internal applications (Internal Tools) for internal department management using NestJS, contributing to impactful products that support daily operations. The systems were built with a strong focus on scalable architecture, high performance, clean code, and long-term maintainability.
- **Operations & Deployment:** Actively participated in product release sessions with end users, as well as deployment and release processes across staging and production environments. Worked closely with stakeholders and team members to ensure smooth releases, system stability, and effective delivery of product updates.
- **Workflow Optimization:** Designed, implemented, and maintained CI/CD pipelines using GitLab CI for the entire development team. Automated build, testing, and deployment workflows significantly reduced manual effort, improved code quality through automated testing, and shortened overall delivery time.

**BIT GROUP**                    6/2025  -  9/2025

*Fullstack Developer Intern*

- Actively contributed to the BitSport project (sports venue booking platform)
  - **Backend:** Designed and optimized APIs for the booking system, integrating Redis for caching, Socket.IO for real-time booking status synchronization, role-based authentication & authorization, OAuth2 for secure login, and calendar management for scheduling.
  - **Frontend & UI/UX:** Created the Admin Panel interface in Figma and implemented it using ReactJS.

# CERTIFICATIONS

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|---|---|
| TOEIC (Test of English for International Communication) : 680 | **10/2024** |
| AWS Academy Graduate - Cloud Developing - Training Badge | **11/2025** |

# PROJECTS

## LEANOVA – Smart Learning System                                    Sep, 2025  -  Present

*Role: Fullstack developer*

- **Technology:** Java (Spring Boot), Node.js (TypeScript), NestJS, ReactJS, gRPC, RESTful API, MySQL, MongoDB, Redis, RabbitMQ.
- **Tools/Clouds:** Docker & Docker Compose, AWS S3, AWS CloudFront, Github, Postman, Nginx.
- **Short Description:** A comprehensive full-stack e-learning platform designed with a microservices architecture to empower instructors to manage multimedia courses and provide learners with interactive, real-time learning communities.
- **Technical Highlights:**
  - Architected the system using Microservices with Spring Cloud Gateway for centralized request routing, load balancing, and JWT validation.
  - Implemented the Saga Pattern (Orchestration & Choreography) to manage distributed transactions across Sale, Course, and Notification services, ensuring eventual data consistency.
  - Optimized inter-service communication using gRPC for high-performance synchronous calls and RabbitMQ for asynchronous event-driven processing.
  - Developed real-time features including a notification system and group chat using Socket.IO, integrated with AI conversation history storage in MongoDB.
  - Managed multimedia content delivery by integrating AWS S3 for storage and CloudFront for low-latency distribution.
  - Implemented CI/CD using GitHub Actions with SSH-based deployment to VPS, automating Docker
- **Link github**: https://github.com/t9tieanh/Learning-Platform
- **Website:** https://learnova.t9tieanh.io.vn/

## FreeClassRoom (Personal Project)                              June 10, 2025  -  July, 2025

*Role: Fullstack developer*

- **Technology:** Node JS (TypeScript), ExpressJS, ReactJs, JWT, OAuth2, RESTful API, MongoDB, Redis, Rabbit MQ.
- **Tools :** Docker, Github, Postman, ..
- **Short Description:** FreeClassroom is an open learning platform where users can create courses, join classes, and share knowledge through posts. It offers a simple and secure way to explore and contribute to a wide range of learning experiences.
- **Technical Highlights:**
  - Built the user interface with ReactJS for responsive and styled components.
  - Integrated OAuth2 authentication with Google Sign-In and secured APIs using JWT (JSON Web Tokens).
  - Integrated Cloudinary for image storage.
  - Implemented a notification service using RabbitMQ for asynchronous message handling.
  - Utilized Redis for data caching and storing OTP codes to enhance performance and security.
  - Developed a real-time messaging feature using Socket.IO for instant communication between users.
- **Link github :** https://github.com/t9tieanh/freeclassroom_

## HOTELAS - Booking System (Team size: 2)                          Mar 25, 2025  -  May 8, 2025

*Role: Fullstack developer* (Academic / Personal)

- **Technology:** Spring Boot, ReactJS, JWT, OAuth2, RESTful API, MySql, Redis.
- **Tools :** Docker, Github, Postman, ..
- **Short Description :** This hotel booking system enables users to search, view details, and book rooms. The backend is built with Spring Boot, using JWT-based authentication and Google login via OAuth2. The frontend is a ReactJS app with Bootstrap, offering a user-friendly interface. Users can search for hotels, view room details, apply discounts, and complete reservations with confirmation. Online payment is integrated via VNPay, and the system is containerized using Docker for easy deployment and scalability..
- **Link github :** https://github.com/t9tieanh/DAS_HotelManagement