



Thanh Quan

.NET DEVELOPER INTERN

📞 0787686893

📅 13/09/2005

✉️ quannguyenthanh1309@gmail.com

🌐 <https://github.com/WaanTh>

📍 87 Thanh Luong, Da Nang

EDUCATION

Da Nang FPT University

September 2022 - Present

Software Engineer

GPA: 3.2 / 4.0

SKILLS

- Programming Language: C# (.NET 8.0), Basic Java
- Technology: ASP .NET Core 8.0, Entity Framework Core, SQL Server
- Soft Skills: Teamwork, Communication, Problem-solving
- Language: Fluent in English

JOB OBJECTIVE

I am a third-year student that learning Software Engineering at FPT University, seeking for an internship position as a Software Engineer at FPT Software Danang. I aim to use all my academic knowledge in software development in a real-world environment, gain hands-on experience with modern technologies, strengthen my technical and analytical skills, and grow as a professional in a dynamic and innovative environment. I am eager to contribute to meaningful projects, learn from experienced professionals, and teamwork skills necessary for a successful career in the tech industry.

ACADEMIC BACKGROUND

Da Nang FPT University

September 2022 - Present

Software Engineer

- Solid understanding of fundamental concepts including Data Structure and Algorithms, Object-Oriented Programming, Database and Web Application Development.
- Hands-on experience with Java EE, Servlet, C#, ASP .NET Core, Entity Framework Core and SQL Server through coursework and project.
- Participated in team projects, applying theoretical knowledge to practical software development.

PROJECT

Developer (Backend - Frontend) September 2025 - December 2025

IELTS PRACTICE WEB APPLICATION

- **Project Description:** Web-based IELTS test preparation platform with interactive exam modules, AI-powered feedback, and community features. Includes Reading, Listening, Writing and Speaking tests with real-time scoring, detailed feedback, and progress tracking. Feature a forum, dictionary, VIP subscription and role-based access (User, Guest, Moderator and Admin).
- **Backend:** Developed a secure backend authentication system in ASP.NET Core 8.0 with user registration/login, HMAC-SHA256 password hashing, and cookie-based session management. Integrated Google OAuth 2.0 for social login and built an OTP-based password recovery using MailKit. Designed a moderated forum with Entity Framework Core and SQL Server, supporting posts, attachments, nested comments, likes, tags, and view tracking. Implemented role-based authorization (user, moderator, admin) with claims-based security and a moderation workflow for post approval and content management.

- **Frontend:** Developed a React 18 frontend with a unified login/register interface, input validation, contextual errors, and Google OAuth integration. Implemented a multi-step password reset flow (email, OTP verification, and password reset with strength validation). Built a forum UI with post filtering, tags, pagination, infinite scroll, and a nested comment system featuring real-time updates and notifications. Created a Moderator Dashboard with role-based routing, statistics, pending/rejected post management, and tag control. Designed reusable components and integrated Axios with cookie-based sessions and custom hooks (useAuth) for authentication state and role-based access control.
- **Testing:** Implemented 141+ unit and integration tests using xUnit, Moq, FluentAssertions, and EF Core In-Memory Database, achieving 95–100% code coverage across core modules. Tested ModeratorController, OtpService, EmailService, and PasswordService for functionality, security, and authorization.
 - **ModeratorController:** 50+ tests validating moderation workflows, authorization, and database state changes.
 - **OtpService:** 36+ tests verifying OTP generation, expiration, resetting tokens, and edge cases.
 - **EmailService:** 19+ tests ensure SMTP configuration, logging, and exception handling.
 - **PasswordService:** 30+ tests (100% coverage) validating HMAC-SHA256 hashing, salt randomness, and verification logic.
 - All tests follow the Given–When–Then pattern, cover both happy and error paths, and are optimized for CI/CD performance and security-critical validation.
- **Result:** Developed a full-stack web application featuring a robust frontend and backend connected through a RESTful API with over 40 endpoints. Integrated more than five external services, including OpenAI, Stripe, Cloudinary, Email, and the Dictionary API, to enhance functionality and automation. Implemented a comprehensive test suite with 200+ unit tests across controllers, services, repositories, and external integrations, achieving 80–100% code coverage on critical modules. The system includes role-based access control with four user roles, secure payment processing via Stripe with webhook handling, and real-time features such as timers, auto-save, and instant feedback. Designed a responsive UI optimized for desktop, tablet, and mobile devices, while maintaining strong security measures including authentication, authorization, input validation, and secure cookie management.