HUYNH THAI DUONG

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I have experience in backend development and am focused on delivering high-quality solutions and improving system performance.

Short-term: Enhance database knowledge, learn cloud technologies, implement CI/CD, and expand microservices expertise.

Long-term: Become a Backend Architect, and lead a development team.

WORK EXPERIENCE

Backend Intern   Nov 2023 - Mar 2024
FPT Software

- A travel agency web application tailored for a Japanese client.
- Collaborated in an Agile team of six developers, contributing to teamwork and project tasks.
- Assisted in drafting and reviewing SRS documents, ensuring clear system requirements and specifications.
- Contributed to building a CRUD Hotel API for the backend using the CQRS pattern.
- Assisted in maintaining source code, version control, and streamlining the development workflow.

IT Support Collaborator   Oct 2022 - Nov 2023
FPT University

- Resolved technical issues for users, achieving a 95% customer satisfaction rate and reducing average resolution time by 30%.

EDUCATION

BSc Software Engineering   Sep 2021 - May 2025
FPT University   **GPA:** 3.3/4.0

PROJECTS

SD Photobooth   Jan 2025 - May 2025

Developed SD Photobooth, an AI-powered photo booth using Canon cameras and Stable Diffusion to generate customized images based on user preferences.

Team Size: 4 members

Key Responsibilities:

- Developed API management system for integration with Next.js, WPF, and Flutter and deployed the system on Azure.
- Used Entity Framework Core & LINQ for efficient database operations with SQL Server
- Implemented JWT authentication & authorization with .NET Identity, ensuring secure user management.
- Implemented Redis caching, storing access tokens in a blacklist upon user logout for enhanced security.
- Implemented RabbitMQ for photo reception and management, and SignalR for real-time delivery to WPF clients.
- Designed and implemented WPF UI, uploaded photos to Firebase, sent photo links to a queue, and received photos via SignalR.
- Ensured secure version control and collaboration with Git.

Tech Stacks: Python, Next.js, .NET, WPF, Flutter, SQL Server, Azure, Git, RabbitMQ, Redis, Firebase, PayOS, Zalo

Shopping E-commerce Platform ⎘   Dec 2024 - Jan 2025

- Built microservices for Catalog, Basket, Discount, and Ordering.
- Implemented YARP API Gateway to route and manage traffic between microservices.
- Implemented asynchronous messaging with MassTransit & RabbitMQ, enabling event-driven communication
- Applied CQRS with MediatR to decouple read and write operations, improving scalability and maintainability
- Optimized Basket service with Redis caching, reducing database load and improving response time.
- Integrated gRPC for high-performance Discount Service.
- Containerized and deployed microservices using Docker & Docker Compose.
- Ensured secure version control and collaboration with Git.

Tech Stacks: ASP.NET Core, Razor Pages, Postgres, SQL Server, Redis, RabbitMQ, YARP, gRPC, Docker, Git

FPT Dormitory Management System ⎘   Jun 2024 - Aug 2024

- Developed a student registration, room allocation, and booking system with a RESTful API using ASP.NET Core.
- Utilized Entity Framework, LINQ for database operations, and ASP.NET Identity for role-based authentication.
- Integrated VNPay for secure online payments

Tech Stacks: React, ASP.NET Core API, SQL Server, Git

SKILLS

Language: C#, Javascript

Database: MS SQL Server, SQLite, PostgreSQL

APIs: REST, JSON APIs, gRPC

Caching and Messaging: Redis, RabbitMQ

Authentication: JWT, OAuth, Basic Authentication, Token Authentication

Version Control/Project Management: Git, Agile/Scrum, Jira

Cloud and Deployment: Azure, Docker

Architectural Patterns & Design Principles: Monolithic, Microservices, DDD, SOLID, CQRS & Event Sourcing, OOP

Other: .NET, .NET Core, .NET Framework, Winform, WPF