

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.

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

EDUCATION

- BSc Software Engineering** Sep 2021 - May 2025
- FPT University GPA: 3.3/4.0
- Japanese: N5
- English : B2

WORK EXPERIENCE

- Backend Developer** Nov 2023 - Apr 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.
 - Developed hotel APIs for the backend using .NET Core.
 - Participated in system documentation and requirement analysis
 - Assisted in maintaining source code, version control, and streamlining the development workflow.
 - Technologies: .NET Core, MS SQL Server, ReactJS, Azure
- 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%.

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

- 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