

# **HUYNH THAI DUONG**

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#### **OBJECTIVE**

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

**Short-term**: I aim to strengthen my database expertise, expand my cloud knowledge, implement robust CI/CD practices, and deepen my understanding of microservices architecture.

**Long-term**: I aspire to become a Backend Architect, designing complex systems, guiding technical strategy, and leading development teams to deliver impactful solutions.

#### **EDUCATION**

FPT UNIVERSITY 09/2021 - 05/2025

BSc Software Engineering

GPA: 3.3/4.0English: B2-C1Japanese: A2

• Relevant Courses: Object Oriented Programming, Data Structure and Algorithms, Web Design, Operating Systems, Computer Networks, Database Systems

#### WORK EXPERIENCE

FPT SOFTWARE 12/2023 - 04/2024

Backend Developer

Team Size: 100 Members

**Description**: A web-based travel agency platform developed for the client, focusing on hotel bookings and travel management.

#### **Responsibilities:**

- Worked in a 6-member Agile sub-team, ensuring sprint delivery on time.
- Drafted and reviewed SRS documents, improving requirement clarity and reducing rework.
- Developed hotel management APIs using .NET Core, contributing to improved system performance.
- Collaborated on system documentation, ensuring consistency and clarity across the development lifecycle.
- Maintained source code and managed version control with Git, ensuring team code integrity.
- Learned cloud deployment practices on Azure, expanding backend-cloud integration knowledge.

Technologies: .NET Core, MS SQL Server, ReactJS, Azure, Git

FPT UNIVERSITY 09/2022 - 12/2023

IT Support Collaborator

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

### **SKILLS**

Language: C#, JavaScript, TypeScript

Libraries & Frameworks: .NET Core (ASP.NET MVC & API), ReactJS, SignalR, Winform, WPF

**Database:** MS SQL Server, SQLite, PostgreSQL Caching &Messaging: Redis, RabbitMQ

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

Cloud & DevOps: Azure, Docker, Firebase

GIESQL

### AI PHOTOBOOTH WITH STABLE DIFFUSION

(01/2025 - 05/2025)

Customer	CAPSTONE PROJECT - FPT University
Description	An AI-powered photo booth using Canon cameras and Stable Diffusion to generate personalized images based on the user preferences
Team size	4
My position	Fullstack Developer
My responsibilities	<ul> <li>Backend</li> <li>Designed and implemented database schemas (ER diagrams) and set up the source repository with Git</li> <li>Developed RESTful APIs consumed by Next.js, WPF, and Flutter clients, deployed on Azure App Service</li> <li>Built middleware for user validation: .NET Identity—backed user management, JWT authentication/authorization, and request validation.</li> <li>Optimized data access with EF Core &amp; LINQ on SQL Server, implementing efficient pagination for large result sets.</li> <li>Applied Redis caching to manage session tokens (including blacklist on logout) for high-performance authentication.</li> <li>Integrated RabbitMQ for photo task management and SignalR for real-time delivery.</li> <li>Frontend</li> <li>Collaborated on WPF page designs and implementation: responsive layouts, data binding, and MVVM patterns.</li> <li>Integrated photo upload workflows to Firebase and handled retrieval/processing of image URLs.</li> <li>Developed print-to-PDF feature enabling users to export and print images</li> </ul>
Technologies used	Python, .NET (ASP.NET Core, WPF), Next.js, Flutter, SQL Server, Redis, RabbitMQ, Firebase, Azure, SignalR, Git

### SHOPPING E-CORMERCE WEB APPLICATION

(10-2024 - 01/2025)

Customer	PERSONAL PROJECT
Description	Designed and deployed a microservices-based e-commerce platform focusing on Catalog, Basket, Discount, and Ordering services, ensuring scalability, maintainability, and high performance.
Team size	1
My position	Fullstack Developer
My responsibilities	<ul> <li>Built microservices for core modules (Catalog, Basket, Discount, Ordering) using .NET</li> <li>Implemented YARP API Gateway for traffic routing and microservices management.</li> <li>Integrated asynchronous messaging with MassTransit and RabbitMQ for event-driven communication.</li> <li>Applied CQRS pattern with MediatR to separate read/write operations</li> <li>Optimized Basket service using Redis caching, reducing database load and improving response time.</li> <li>Integrated gRPC for efficient, high-performance communication with the Discount service.</li> <li>Containerized services using Docker and orchestrated deployments with Docker Compose.</li> <li>Ensured secure version control and streamlined team collaboration via Git.</li> </ul>
Technologies used	ASP.NET Core, Razor Pages, PostgreSQL, SQL Server, Redis, RabbitMQ, YARP, gRPC, Docker, Git Link Project: https://github.com/hnhthdng/EshopMicroservices

## FPT DORMITORY MANAGEMENT WEB APPICATION

(5/2024 - 8/2024)

Customer	PET PROJECT - FPT University
Description	Developed a student registration, room allocation, and booking system using a RESTful API with ASP.NET Core, ensuring secure transactions and efficient backend management.
Team size	4
My position	Fullstack Developer
My responsibilities	<ul> <li>Built a RESTful API for student registration, room allocation, and booking management using ASP.NET Core.</li> <li>Optimized database interactions with Entity Framework and LINQ for better performance.</li> <li>Implemented role-based authentication and authorization using ASP.NET Identity.</li> <li>Integrated VNPAY for secure online payment processing.</li> <li>Collaborated closely with front-end developers to ensure smooth API integration with React.</li> <li>Participated in code reviews to uphold code quality, maintainability, and documentation standards.</li> <li>Frontend</li> <li>Built Admin UI with React and React Router for seamless dashboard, user, and settings navigation.</li> <li>Styled responsive layouts and components using Tailwind CSS.</li> <li>Configured Axios interceptors to attach JWTs for login, registration and logout.</li> <li>Implemented route guards and role checks (decoded from JWT) for authentication and authorization.</li> </ul>
Technologies used	ReactJS, ASP.NET Core API, SQL Server, Entity Framework, LINQ, Git, VNPAY Link Project: https://github.com/hnhthdng/FPTDormitory