Phuong Trung Duc

Full-Stack Developer

Continuously enhance my technical expertise, expanding skills from backend to full-stack development. In the long term, aim to take on roles such as Solution Architect or Technical Lead, leading teams and shaping technical strategies.

CONTACT INFORMATION

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- github.com/phgtrungduc
- Hà Nội

LANGUAGES

English: TOEIC 695 – Good reading comprehension, basic conversational skills
- Able to read and understand documents, basic conversational ability

EDUCATION

Hanoi University of Science and Technology

B.Sc. in Computer Science

07/2017 - 08/2022
- Graduated with Honors
- Solid foundation in data structures, algorithms, object-oriented programming, and web development.
- Proficient in C, C++, Java, JavaScript; knowledgeable in design patterns.
- Graduation project: Rental property website; built a social networking platform as a course project.

TECHNICAL SKILLS

Programming Languages
C, C++, Java, JavaScript, VB.Net, C#, TypeScript

Frameworks/Libraries
VueJS, AngularJS, Angular, ReactJS, NextJS, ExtJS, ASP.NET Core, Node.js, NestJS

Databases
SQL Server, MySQL, MongoDB

Tools/Technologies
Git, Docker, CI/CD (GitLab), RabbitMQ, Kafka, MQTT, ELK Stack, Stimulsoft Reports

Others
Knowledge of design patterns, microservices architecture, REST API development

DETAILED EXPERIENCE

02/2025 - Present

Chat Online System – E-commerce Platform Chat Integration

Backend Developer

- Designed and developed a **unified chat management system** that consolidates messaging from multiple platforms such as **Shopee, Facebook, and Instagram** into a single application.
- Worked with a modern tech stack including **NestJS, Angular, MongoDB, SQL Server, and RabbitMQ** to build scalable and maintainable backend services.
- Integrated **AI-assisted development workflows**, leveraging tools such as **Cursor AI** to improve development efficiency and code quality.
- Handled **database migration and multi-database integration**, enabling multiple databases to be accessed and processed within a single request flow.
- Optimized **database query performance** to handle high concurrent traffic and prevent system overload:
- Applied **Redis caching** and **in-memory caching** for rarely changing data (e.g., user names, profile images).

- Implemented **pagination strategies** to reduce query load and improve response times.
- Applied **software design patterns** to ensure compliance with **SOLID principles** and maintain system extensibility:
- Utilized **Strategy, Adapter, and Facade patterns** to enable seamless integration of new platforms such as **Zalo** with minimal code changes.

11/2024 - 02/2025

KiotQR – QR Code Payment Notification Software

Backend Developer

- Developed QR payment result notifications
- Implemented features: transaction management, customer information management, voice alerts for account balance changes, admin web portal for KiotQR management
- Used Angular 19 for management interface, Kafka for receiving banking events, MQTT for real-time client notifications
- Backend built with .NET Core 8.0 and MongoDB
- Team size: 10 members

03/2024 - 11/2024

KiotViet Facebook Integration – Sales Management via Fanpage

Full-Stack Developer

- Fixed customer-reported issues
- Built UI with Angular 12
- Backend: microservices architecture with Node.js, MongoDB, RabbitMQ Implemented: full UI redesign, TikTok livestream sales management, automated reply to correct-format comments during Facebook livestreams
- Team size: 20 members

03/2023 - 03/2024

KiotViet – Sales Management Software

Backend Developer

- Developed UI for sales and management using Angular, AngularJS
- Built backend with ASP.Net Core, ASP Framework + ServiceStack, EntityFramework, SQL Server
- Used RabbitMQ, Kafka, Docker for service development and data tracking
- Implemented features: payment by loyalty points, dynamic QR codes for customer payments, invoice template customization, store management by warehouse, VAT pricing management, timezone-based store management, currency-based pricing
- Fixed bugs during customer usage
- Applied GitLab CI/CD and ELK Stack for system monitoring
- Team size: 20 members

09/2021 - 02/2023

MISA BUMAS – Budget Management Software

Full-Stack Developer

- Built UI using HTML, CSS, JS, jQuery
- Developed backend with ASP.NET Core and MySQL
- Wrote unit tests using NUnit, NSubstitute, Verify
- Developed features for budget allocation from Finance Departments to subordinate units, management decision assignments, and reports according to Ministry of Finance Circulars 342, 343, etc.
- Handled complex accounting processes
- Generated reports using Stimulsoft
- Team size: 30 members

02/2021 - 08/2021

MISA CukCuk – Restaurant Management Software

Full-Stack Developer

- Built UI using ExtJS and VueJS
- Developed backend with VB.Net and SQL Server

- Implemented features: sales reports, total payment summaries by payment card types, etc.
- Team size: 30 members

07/2017 - 08/2022   **Student**

Hanoi University of Science and Technology

- Basic knowledge of data structures & algorithms, object-oriented programming, and web development
- Languages: C, C++, Java, JavaScript
- Knowledge of Design Patterns
- Completed social networking project and graduation thesis on rental house website