

Nguyen Manh Hung

Software Engineer

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About me

I am a recent Software Engineering graduate specializing in software development with expertise in C#, Typescript and Dart. I have hands-on experience with backend and frontend architectures, including design, API management. I am familiar with Agile and Waterfall methodologies. A quick learner with strong problem-solving skills, I am passionate about algorithm and tackling real-world challenges and eager to contribute to an innovative team.

Educations

FPT HCM University

2020 - 2024

- Bachelor of information technology - GPA 8.0/10
- 100% scholarship

Nguyen Du High School for Gifted Students

2017 - 2020

- The national informatics team of Dak Lak province
- Honorable mention for the Informatics in the 2020 National High School

Awards & Achievements

- Third Prize for the 2023 ICPC Vietnam Southern Programming Contest
- Honorable Mention for the 2021 ICPC Vietnam National
- Honorable Mention for the Informatics in the 2020 National High School

Work Experience

FPT Software - Aloka team

08/2023 - 12/2023

- **Team size:** 21 members.
- **Description:** Specializes in calculation software in ultrasound and medical machines, performing calculation measurements, drawing images directly from multiple MODES of image display obtained from broadcasting equipment.
- **Tech Stack:** C++, WPF, ASP.NET
- **Responsibilities:**
 - **Designed and implemented functionality to draw points and lines, measure, and analyze vascular parameters** (e.g., blood flow, vessel size, wall thickness, flow velocity) to assist in diagnosing medical conditions.
 - **Investigated and resolved startup delays** caused by the initial data loading and processing from XML files. The issue stemmed from I/O-bound operations being executed on the UI thread, leading to rendering delays. Ensured that UI buttons dependent on data remained disabled until the data was fully loaded and enabled them upon completion.
 - **Optimized and restructured API response formats** to meet specific application or client requirements, ensuring efficient data delivery and seamless integration with frontend systems.

Skills

- **Backend:** Proficient in C# and ASP.NET for building RESTful APIs. Experienced in data validation (Annotations, FluentAPI), caching (Redis), dependency injection (Autofac), and handling errors in middleware. Skilled in ORM with Entity Framework and LINQ queries.
- **Database:** Intermediate in PostgreSQL and SQL Server, including design, optimization, and query management.
- **Mobile:** Proficient in Flutter with state management (Bloc, GetX), API integration (Dio), and push notifications using Firebase. Basic experience with Bluetooth GATT connectivity.
- **Frontend:** Familiar with React, TypeScript, HTML, and modern UI libraries (MaterialUI, Shadcn). Experienced in styling with TailwindCSS and state management (Zustand, ReactQuery).
- **Problem Solving:** Proficient in C/C++ with a strong foundation in dynamic programming, graph theory, algorithms and data structures for competitive programming.
- **Tools & Platforms:** Git/GitHub, Docker, Jira for project management. Basic knowledge of Nginx for handling requests for hosting personal projects.

Highlight Projects

Huynh Hanh Financial Management System

09/2024 - 11/2024

- **Description:** Developed software for managing the weighing station at an agricultural product warehouse, recording truck weighing data through COM port and capturing images.
- The software analyzes images to identify vehicle variables and stores data for generating weighing slips or reports.
- **Tech Stack:** ASP.Net, Reactjs, Electronjs, Material UI, Tailwindcss, Docker, Nginx.
- **Source:** [Website](#) [Github](#)

SmartMicro - IoT Platform for Smart Home Management

02/2024 - 04/2024

- **Description:** Developed an IoT platform for managing smart home devices (using MicroBit device - Microsoft), enabling users to control and monitor devices via Bluetooth and Wi-Fi. Features include real-time charts, voice interactions, and AI-driven automation for seamless home management
- **Responsibilities:**
 - *Built a mobile app using Flutter with GetX for state management.*
 - *Connected to BLE devices using GATT and UART protocol to manage devices like lights and doors with Bluetooth.*
 - *Integrated SignalR for real-time data updates and chart displays.*
 - *Implemented voice interaction using Flutter TTS and OpenAI API for executing simple commands like turning lights on/off or locking/unlocking doors.*
- **Tech Stack:** Flutter, Asp.net, MIT App Inventor
- **Source:** [Github](#)

Jine Blog

04/2024 - 06/2024

- **Description:** My blog shares knowledge about algorithm, data structure, information technology, lifestyle, and other interesting aspects of life.
- **Main Topics:** Programming, technology, personal development, lifestyle.
- **Tech Stack:** Reactjs, Tailwindcss, Docker, Nginx.
- **Source:** [Website](#) [Github](#)

Ut Nhan Pharmacy Inventory Management System

02/2024 - 10/2024

- **Description:** Developed a pharmacy inventory management system for Ut Nhan Pharmacy chain, focusing on enhancing warehouse operations efficiency and optimizing inventory management.
- **Tech Stack:** ASP.Net, React, MedusaUI, Flutter.
- **Source:** [Demo](#) (Private repositories due to company contract)
- **Role:** ASP.NET + Flutter, Collaborating with a team of five members and stakeholders to implement and refine inventory export/import flows.