

# Nguyen Manh Hung

## Software Engineer

+84 947 339 718  
Ho Chi Minh City  
nmhung.works@gmail.com

[Linked.in/jinergencai](https://www.linkedin.com/in/jinergencai)  
[github.com/jinergencai](https://github.com/jinergencai)  
[jine.blog](https://jine.blog)

### 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 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

06/2023 - 02/2024

- **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

- Proficient in web application development using **C#** and **ASP.NET** to build RESTful APIs. Basic Knowledge with **Redis** for data caching, **Autofac** for dependency injection and lifecycle management, and handling errors in middleware. Skilled in data validation using annotations and **FluentAPI**. Proficient in **Entity Framework** for ORM design, handling of entity snapshots for mapping and change tracking, and writing queries using **LINQ**.
- Intermediate with **PostgreSQL** and **SQL Server** for database design, optimization, and management.
- Intermediate in **Flutter** app development using **Dart**, with state management using **Bloc** and **GetX**. Basic Knowledge in integrating **Firebase** for push notifications and background processing. Utilized **Freezed** for automatic data class generation and **Dio** for API calls. Basic Knowledge with Bluetooth GATT for Bluetooth device connectivity.
- Basic Knowledge with **React**, **TypeScript**, and **HTML**, using **TailwindCSS** for efficient styling. Familiar with modern UI libraries such as **MaterialUI** and **Shadcn**, and proficient in state management with **Zustand** and **ReactQuery**. Using **Axios** to call Api.
- Proficient in **C/C++** for solving complex problems and applying knowledge about algorithm and data structures, especially in competitive programming.
- Familiar with **Jira** for project management, **Docker** for containerization, and **Git/GitHub** for version control. Basic knowledge of **Nginx** for handling requests and proxying traffic 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](#)

### Jine Blog

02/2024 - 04/2024

- **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.