Nguyen Hoang Nguyen

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EDUCATION

Academy of Cryptography Techniques — Ho Chi Minh, Viet Nam
Bachelor of Technology - Software Engineering; GPA: 3.38/4 — *August 2021 - August 2025*
- Graduated with Second Highest Honors (9.2/10) – Capstone Project

EXPERIENCE

Software Development Intern — TechCorp Solutions
Full-stack Developer Intern — *June 2024 - December 2024*
- **Web Application Development**: Developed and maintained web applications using ASP.NET Core and Angular, contributing to 3 client projects with improved user experience and 25% faster load times.
- **API Integration**: Successfully integrated third-party APIs including payment gateways and authentication services, handling error management and data validation.
- **Code Review & Collaboration**: Participated in code reviews and Agile development processes, collaborating with senior developers and following industry best practices.

PROJECTS

Bookstore Management System - API & MAUI Client — Personal Project
Full-stack Developer — *February 2025 - July 2025*
- **Scalable Cloud & E-commerce API**: Architected and built a RESTful API in ASP.NET Core 8 with a complete e-commerce workflow, including inventory management, order processing, promotions, and a multi-role (Customer, Staff, Admin) JWT-based authorization system.
- **Cross-Platform Mobile Application**: Developed a cross-platform mobile app using .NET MAUI and the MVVM pattern, providing a feature-rich experience for customers (browsing, cart, checkout) and a dedicated management panel for staff and admins.
- **Cloud Storage & Image Processing**: Integrated Google Cloud Storage (GCS) for scalable image hosting. Implemented server-side logic to automatically resize uploaded images into multiple formats (thumbnail, medium), optimizing performance and bandwidth usage for the mobile client.
- **Tech stack**: ASP.NET Core 8, .NET MAUI, Entity Framework Core, SQL Server, Google Cloud Storage, JWT Authentication, RESTful API, MVVM Pattern

GitHub: API Repository — Mobile App Repository

ChatApp - Real-time Chat Application with AI Assistant — Personal Project
Full-stack Developer — *May 2025 - July 2025*
- **Full-stack Real-time Architecture**: Developed a complete SPA featuring real-time messaging, user presence indicators, and lazy-loaded history using ASP.NET Core SignalR for the backend and an Angular 17+ client.
- **OAuth 2.0 & JWT Security**: Engineered a secure authentication flow by integrating Google OAuth 2.0. The API validates external identities and issues its own stateless JWTs for authorizing subsequent requests, protected by a custom HttpInterceptor in Angular.
- **Third-Party API Integration**: Successfully integrated the OpenAI API to provide an in-chat AI assistant, demonstrating the ability to handle asynchronous communication with external, token-based services.
- **Tech stack**: ASP.NET Core SignalR, Angular 17+, TypeScript, Google OAuth 2.0, JWT, OpenAI API, SQL Server, Entity Framework Core

GitHub: Repository

TECHNICAL SKILLS

- **Languages**: C#, TypeScript, JavaScript, SQL (T-SQL), HTML5, SCSS/CSS3, PHP
- **Primary Skills**: ASP.NET Core, Entity Framework Core, Angular, SQL Server, REST APIs, JWT/OAuth
- **Secondary Skills**: .NET MAUI, SignalR, React (Basic), Docker, GCS, CI/CD Pipelines
- **Tools**: Visual Studio, VS Code, Git, Postman, Swagger, Azure Data Studio
- **Software Architecture**: Clean Architecture, SOLID Principles, Dependency Injection, Asynchronous Programming, Design Patterns

CERTIFICATIONS

- **Google AI Essentials**: Coursera Certificate - XM4SPDCWWTT5
- **Google IT Support Professional Certificate**: Coursera Specialization - GADKFCWMGZDC