

NGUYEN THANH NGUYEN

Backend Developer (NodeJS/NestJS)

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- **2 years** of professional experience in Backend development, specializing in building **RESTful APIs** using **NodeJS** and **NestJS**, particularly for projects in **the Insurance and Fintech sectors**
- Strong expertise in both SQL and NoSQL databases, with deep proficiency in **MongoDB**, **MySQL**, and **PostgreSQL**
- Backend-focused with practical proficiency in building frontend interfaces using **NextJS** and **ReactJS**
- Solid understanding of software design principles, design patterns, and writing high-quality, **testable code with Jest**

Education

HCMC University of Technology and Education
Bachelor of Engineering In Information Technology

Graduated
Aug 2020 – Jan 2025

Skills

Languages: **TypeScript**, **JavaScript**, HTML/CSS
Backend: NodeJS, **NestJS**, ExpressJS
Security & Auth: **JWT**, **OAuth**, Data Protection
Frontend: NextJS, ReactJS
Databases: **MySQL**, **MongoDB**, SQL Server, PostgreSQL
DevOps & CI/CD: **GitHub Actions**, **CI/CD Pipelines**, **Docker**, AWS CloudWatch
Testing: **Jest (Unit Testing)**, Cypress (E2E)
Team Methodologies: **Agile Scrum**, Extreme Programming (XP)
Platforms: **Git/GitHub**, **Slack**, **Jira**, Microsoft Team
English: Proficient in written English, with basic verbal communication abilities

Certifications

Nov 2022

- Big Data & Machine Learning Fundamentals Google Cloud Fundamentals: Core Infrastructure

May 2023

- Software Development With Scrum

Experience

ASOFT Corporation

Sep 2023 – Dec 2023

Backend Developer (Intern)

- Researched and applied C# and ASP.NET technologies to solve web development challenges
- Utilized SQL Server for database management
- Participated in research on ASOFT ERP products and supporting practical work

Modelty Strategy & Consulting

Jul 2024 – Present

Full Stack Developer

- Built and maintained real-world web applications using NestJS, ReactJS, NextJS, and MySQL
- Enhanced experience in backend feature development, database modeling, and UI/UX

implementation

- Applied Test-Driven Development (TDD) and performed automation testing for better code reliability
- Integrated OCR AI capabilities, managing prompt inputs and parsing model responses for structured data extraction
- Collaborated with cross-functional teams following Extreme Programming (XP) practices
- Provided ongoing system maintenance and technical support for internal users

Projects

Body Check Systems |

Jul 2024 – May 2025

Tech Stack: *NodeJS, NestJS, NextJS, ReactJS, MySQL, Jest, Cypress*

Overview: Developed a Body Check Mall platform, enabling potential customers to browse and purchase body check-up plans, as well as manage their appointment history

Responsibilities:

- Designed and maintained data models and RESTful APIs to accommodate evolving business logic and system requirements
- Updated and modified UI/UX components to align with Figma design specifications
- Implemented core backend features including user authentication, promotional logic, report generation, and automated email alerts via scheduled cron jobs
- Applied Test-Driven Development (TDD) using Jest to ensure backend code reliability and early bug detection
- Performed end-to-end automation testing using Cypress to ensure frontend functionality and stability

Insurance Digital Wallet (MVP) |

Jan 2026 – Feb 2026

Tech Stack: *NodeJS, NestJS, NextJS, ReactJS, PostgreSQL*

Overview: Developed a Minimum Viable Product (MVP) for an insurance digital wallet that streamlines the "pre-hospital" process. The system allows users to request medical coverage, receive virtual cards for real-time hospital payments, and submit the claim reconciliation and settlement process

Responsibilities:

- Designed and implemented core backend services using NestJS and PostgreSQL to manage complex case lifecycles
- Integrated Airwallex Issuing API to automate cardholder creation and virtual card issuance with strict authorization controls
- Built an automated settlement engine that reconciles actual card transactions against approved insurance eligibility to calculate user cost-sharing
- Developed and executed unit tests using Jest to verify the core business logic of the settlement engine and state machine, ensuring high code reliability and stability

Clinic & Admin Portal Systems |

Dec 2024 – Aug 2025

Tech Stack: *NodeJS, NestJS, NextJS, ReactJS, MUI, MySQL*

Overview: Developed a clinic portal for medical staff, enabling verification of clients from partnered insurers. The system also includes functionalities for managing doctors, appointment bookings, medical service fees, and administrative operations

Responsibilities:

- Implemented core features such as voucher code application, monthly clinic report downloads, and various backend workflows
- Maintained the system and provided IT support for the Customer Service (CS) team

OCR Systems |

June 2025 – Dec 2025

Tech Stack: *NodeJS, NestJS, NextJS, ReactJS, MySQL, Gemini API*

Overview: Built an automated medical document processing system leveraging OCR technology. Key capabilities include classifying diverse document types, applying logic-based rules for specific cases, and transforming raw text into precise JSON outputs

Responsibilities:

- Maintained and tweaked OCR prompts to improve the reliability of information extraction
- Handled the integration of prompts into the API service and managed response processing
- Formatted and validated AI-generated data to produce clean JSON outputs matching technical specifications