

NGUYEN QUOC THINH – Backend Developer (Node.Js)

Long An • [+84 936 549 477](tel:+84936549477) • nguyenquocthinh111@gmail.com • [linkedin/nguyen-quoc-thinh](https://www.linkedin.com/in/nguyen-quoc-thinh)

CAREER ORIENTATION

My detailed career orientation can be viewed in this [**mindmap**](#)

EDUCATION

Ho Chi Minh City University of Technology and Education

08/2021 – 08/2025

- Major in Software technology.
- GPA: 8.23

TECHNICAL SKILLS

Programming Languages: Java, JavaScript, TypeScript.

Frameworks: React.js, Node.js, Express.js.

Database & ORM: SQL Server, MongoDB.

Messaging & Communication: RESTful APIs, Postman.

Web Technologies: HTML/CSS, Tailwind CSS.

Tools & Platforms: GitHub, Visual Studio Code, IntelliJ IDEA.

PROFESSIONAL EXPERIENCE

LELONG Vietnam Co., Ltd. - Mobile Developer Intern

06/2024 – 08/2024

Project: Android Application – Generator Monitoring App (Personal)

- **About:** This mobile application was developed to support technicians and managers in efficiently managing and maintaining generators. It allows users to log inspection data, manage generator information, view maintenance history, and schedule regular servicing. The app synchronizes with a central server using RESTful APIs to ensure data consistency and real-time updates. The project followed a standard software development lifecycle, including requirement analysis, design, implementation, testing, deployment, and maintenance.
- **Technologies:** Java, Android Studio, Retrofit, Gson, Glide, CameraX, RecyclerView Animators, RESTful API, Material Design.
- **Key Contributions:**
 - Developed core features such as inspection logging, generator information management, and maintenance scheduling.
 - Integrated CameraX for capturing photos during inspection and Glide for efficient image loading.
 - Used Retrofit and Gson to handle API communication and data serialization with the backend.
 - Collaborated with mentors to analyze requirements, test features, and fix bugs during integration phase.

ACADEMIC PROJECTS

Project: Medical Appointment Booking Website (2 members)

- **About:** This project is a full-stack medical appointment booking platform developed as a group academic project. It aims to provide a convenient solution for patients to search for doctors, view their available time slots, and book medical appointments online. The platform supports multiple user roles, including Admin, Hospital Admin, Doctor, and Patient, each with customized access and functionality. The Global Admin has full control of the system, such as managing hospitals, specialties, and users. The Hospital Admin is

responsible for managing doctors, appointments, and schedules within their assigned hospital. Doctors can manage their personal information, working hours, view patient bookings, and update appointment status. Patients can manage personal medical records, view doctor profiles, select a time slot, and book appointments.

- **Technologies:** React.js, Tailwind CSS, Axios, Node.js, Express.js, MongoDB, Mongoose, JWT, Socket.io, Google OAuth 2.0, Cloundinary, Nodemailer.
- **Features Implemented:**
 - Patient booking system with doctor selection, available time slots, and real-time confirmation.
 - Doctor dashboard to manage schedules, appointments, and patient feedback.
 - Admin portal for managing doctors, clinics, specialties, and user accounts.
 - Hospital-specific sub-admins with restricted access and management rights.
 - Authentication via JWT and Google OAuth 2.0.
 - Email confirmation and notifications using Nodemailer.
 - Image upload with Cloundinary and profile image management.
 - Real-time updates for chat and notifications using Socket.io.
- **Key Contributions:**
 - Developed doctor and hospital detail pages, displaying comprehensive information, appointment slots, and real-time availability.
 - Implemented the appointment booking flow, supporting both direct and online (MoMo) payments:
 - Direct payment: Send email confirmation with booking details.
 - MoMo payment: Redirect to MoMo gateway and send confirmation email upon successful transaction.
 - Built and integrated user dashboard features, including:
 - Appointment status tracking (e.g., pending, confirmed, completed, cancelled).
 - Personal information management and password change.
 - Patient record management (add/edit/delete).
 - Saved video management for later viewing.
 - Statistics related to appointments.
 - Designed and implemented doctor recommendation feature using SVD algorithm with Surprise library to suggest relevant doctors to users.
 - Integrated a chatbot system for users to ask questions related to healthcare topics and doctor/hospital information.
 - Developed Doctor Role Interface:
 - View and manage incoming appointments from patients.
 - Monitor statistics related to completed and pending appointments.
 - Manage working schedules (create, update, delete time slots).
 - Handle doctor reviews and ratings.
 - Add, update, delete medical videos for patients.
 - Update personal profile and securely change password.
- **Frontend github:** <https://github.com/QuocThinhNguyen/health-schedule-FE>
- **Backend github:** <https://github.com/QuocThinhNguyen/health-schedule-BE>
- **Live demo:** <https://health-schedule-fe.vercel.app>