NGUYEN DUC KHANG

Fullstack Developer

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Summary

I am a Fullstack Developer with **over 2 years** of experience in creating robust and user-friendly web applications. I have a proven track record of using **NodeJS** (**NestJS**) for developing scalable backends and **ReactJS** (**NextJS**) for building engaging frontends. I possess expertise in **TypeScript**, **RESTful APIs**, **GraphQL**, and **database technologies**. My passion lies in developing high-quality, maintainable software that delivers exceptional user experiences. I am currently seeking a challenging opportunity to contribute my skills and expertise to a fast-paced and innovative team.

Working Experience

TGL Solutions

Fullstack deverloper   03/2022 - Present

A company specializing in outsourcing services for the Japanese market.

Education

VNUHCM - University of Information Technology   HCMC

Software Engineer   2018 - 2022

SKILLS

As a Full-Stack Developer, I specialize in building user-centric web applications using frameworks such as **JavaScript/TypeScript**. My expertise covers both front-end and back-end development, ensuring a holistic approach to project delivery. I have a successful track record in creating booking systems, real-time applications, and contributing to open-source projects. I use **TypeScript** to improve code maintainability, while **Git**, **Docker**, and **Agile/Scrum** methodologies help me ensure smooth development workflows and efficient collaboration.

Frontend

I am a skilled creator committed to designing engaging web and mobile experiences that prioritize user satisfaction. I possess expertise in advanced technologies like **ReactJS** and **NextJS**, which I utilize to build complex, high-performance applications. With a strong foundation and the necessary skills, I adeptly tackle the challenges of front-end development, leveraging my expertise and supplementary libraries to execute projects swiftly and efficiently.

- Deep understanding of **React Hook** and system optimization techniques to ensure optimal performance and user experience.
- For building basic and advanced web structures, a strong command of HTML, CSS, SCSS, Responsive and **TailwindCSS** is essential.
- Utilize popular UI libraries such as **Ant Design**, **MaterialUI**, and **Mantine** to create visually appealing and intuitive user interfaces.
- Specialized in handling and managing state management, particularly **Redux**, for complex systems.
- Mastered **Axios**, **RESTful API** (**SWR**, **ReactQuery**) and **Graphql** (**ApolloClient**) for efficient data access.
- Experience in building websites with animations using **GSAP**, **Framer Motion**, and **Three.js**.

Backend

I have a specialization in developing robust and real-time systems. Building high-performance server-side solutions is my passion and I use **NodeJS** and **NestJS** to create APIs and backend services that meet the highest standards of performance and scalability. My expertise also includes designing and implementing **RESTful APIs** and **GraphQL** to facilitate flexible and efficient data access. With my extensive experience, I have a proven track record of optimizing application speed and building real-time functionalities to provide exceptional user experiences.

- Adept at using ORM frameworks such as **TypeORM**, **Prisma** for efficient data modeling and seamless database interaction with **MySQL**, **PostgreSQL**, and **MongoDB**.
- Implement real-time features using **SocketIO** and leverage **Redis** for caching and data storage optimization.
- Proficient in both Object-Oriented Programming (**OOP**), Functional Programming, and Design Patterns.
- Using tools like **Docker**, **AWS**, and **Nginx** for development and deployment processes, management, and automation.

Realtime Workspace

Senytera.online   01/2023 - Present

My project involves developing a comprehensive real-time workspace system, focusing on integrating chat functionality, notifications, and task management features. I crafted this system using a cutting-edge tech stack including **NestJS** and **ReactJS**. With a strong emphasis on speed and efficiency, the system ensures optimal performance and responsiveness, enabling swift and seamless interactions within the workspace environment.

- Role: **Solo**
- My contributions: In this project, I was responsible for developing the entire frontend codebase and its features. This involved integrating **React Query** and **Redux** for state management. On the backend, I incorporated real-time communication functionalities using **socketIO**, enabling instant messaging and collaboration among users. I optimized the database schema using **MySQL** and **Prisma** for efficient data storage and retrieval, and integrated **Redis** for caching to enhance system performance. Additionally, I designed a modern, responsive user interface prioritizing usability and aesthetics, utilizing **MantineUI** and **Tailwind CSS**.

House Inspection System

03/2022 - 06/2023

This project involves a web and mobile application system that is designed to conduct surveys and evaluations of construction works and apartment buildings. The main purpose of this project is to provide a convenient and efficient way to assess the condition and quality of these structures.

- Role: **Fullstack developer** (**Web**, **App**, **Backend**).
- My contributions: I contributed to a project involving surveys and evaluations of construction works and apartments. I worked on frontend, backend, and mobile app roles. I used **ReactJS / React Native**, **Tailwind CSS**, **Redux**, **React Hook Form**, and **React DND Beautiful** for the frontend and mobile app. For the backend, I used **NestJS** and **MongoDB**, I optimized performance for handling large amounts of data in forms and integrated **GraphQL** with **Apollo Client** for efficient data retrieval and manipulation.

Custom open-source

03/2023 - 07/2023

The aim of this project is to improve the functionality of **Mattermost**, an open-source code, to facilitate better communication operations, follow-up communication, task management, and internal company processes. The main goal is to enhance the user interface and incorporate additional features that can seamlessly connect with other company systems, creating a more cohesive ecosystem. This approach aims to increase operational efficiency and streamline the management of internal activities.

- Role: **Frontend Deverlop**
- My contributions: I have made significant contributions by customizing and improving the open-source code of Mattermost. My work involved enhancing the user interface to make it more user-friendly and integrating additional features with other systems used by the company. These changes resulted in improved communication efficiency and simplified management of internal processes.

Travel booking system

09/2023 - 03/2024

A booking system built with Next.js caters to businesses needing a web-based platform optimized for mobile devices. Its responsive design ensures accessibility across all devices with web browsers, providing an efficient solution for integration within clients' webviews. This approach minimizes costs while enhancing convenience and user experience.

- Role: **FullStack Deverlop**
- **My contributions:** I integrated Firebase authentication with webviews and created a visually appealing UI using **Ant Design** and **Tailwind CSS**. I used **SWR** for efficient data fetching and socket.io for instant communication, while **NestJS** and Firebase served as reliable backend services for real-time communication and messaging functionality to support the booking system.

Renew the logistics system

03/2022 - 10/2022

This project aims to renew an outdated logistics system using new technologies based on customer requirements. The process will involve generating ideas for improvements, implementing necessary upgrades and integrations, and overhauling the entire system to make it more efficient and functional.

- Role: **Frontend Deverlop**
- I specialize in utilizing modern frontend technologies like **ReactJS**, **React Query**, **Ant Design**, **Tailwind CSS**, **React Hook Form**, **TypeScript**, and S**tyled Components**. Through these tools, I enhance efficiency and functionality, optimizing interfaces, streamlining data fetching, maintaining consistent styling, and improving form handling. My expertise contributes to building robust, scalable, and user-friendly frontend solutions.