

# Nguyen Hoang Long

Software Engineer

Portfolio: [portfolio-nhlong27.vercel.app](https://portfolio-nhlong27.vercel.app)

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Software engineer passionate about web development. Proficient in frontend with experience in back-end development, dedicated to creating seamless user experiences and contributing to efficient, agile, scalable web solutions.

## Education

**Ho Chi Minh City University of Technology (HCMUT)**

*Bachelor of Science in Computer Science*

*HCMC, Vietnam*

Graduated 2023

## Certificates

**IELTS 8.0**

## Experience

**Software Engineer Intern**

*May 2021 - September 2021*

*Vuthao Software Solutions*

- Gained practical experience maintaining front-end applications, ensuring cross-browser compatibility and responsive design.
- Contributed to maintaining code quality, documentation, and version control within the development process.

## Technical Skills

**Languages:** HTML, CSS, Javascript, Typescript, C/C++, Python, SQL, GraphQL

**Libraries and Frameworks :** React, Next.js, Bootstrap, TailwindCSS, Redux, Redux-Saga, Scss/Less, Jotai, Zustand, Node.js, Express.js, tRPC, PostgreSQL / MySQL, MongoDB, Redis, Kafka, Jest, Playwright

**Tools:** Git, Github, Jira, Postman, AWS, EC2, S3, Google Cloud, Docker, Figma, Webpack, Babel, Vite

## Projects

**Epicola - E-commerce Website for Beverages**

*May 2023 - August 2023*

*Next - Typescript, Redux, GraphQL, PostgreSQL, MongoDB, Redis, Kafka, Stripe Webhook*

[🖥 Demo](#) [📁 Repo](#)

- Delivered a streamlined shopping experience, optimized performance and user satisfaction.
- Conceived and built custom order and stock services, reducing dependency on third-party solutions or headless CMS, acquiring in-depth knowledge of SaaS solutions like Stripe checkout and webhooks.
- Developed a web scraping service, employing cron jobs to push updates to Kafka topics.
- Incorporated GraphQL for efficient CRUD operations alongside Next.js API routes, integrating Next-Auth for secure credentials and OAuth authentication using JWT tokens.
- Integrated Redis as a cache layer, enhancing product querying efficiency with MongoDB for agile product data storage and PostgreSQL for complex relational data.

**Dengue Defense - IoT Integrated Application Solution for Dengue Fever**

*February 2023 - April 2023*

*Next - Typescript, Jotai, tRPC, PostgreSQL, Kafka*

[🖥 Demo](#) [📁 Repo](#)

- Enhanced public health by leveraging IoT devices with data-driven approach to disease prevention.
- Utilized tRPC, a type-safe API library, to design a robust and secure communication layer between the client and server, with Zod for runtime validation.
- Implemented session-based authentication using Next-Auth, striking a balance between security and user convenience.

**Fir Media - Nature-inspired Movie Website**

*September 2022 - January 2023*

*React - Typescript, Vite, TailwindCSS, Zustand, Express.js, MongoDB*

[🖥 Demo](#) [📁 Repo](#)

- Crafted a media streaming experience with robust server backend using Express, integrating JWT-based authentication to ensure secure user access.
- Experimented with state management libraries like Jotai and Zustand, enhancing data flow and application state management, Tailwind CSS for responsive and efficient styling.
- Employed Vite along with TypeScript to construct a performant and type-safe client application.