Nguyen Hoang Long

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Software Engineer   💼 Portfolio: portfolio-nhlong27.vercel.app

Software engineer passionate about full-stack development. Proficient in both front-end and back-end technologies, dedicated to creating seamless user experiences and contributing to software innovation.

Technical Skills

Languages: HTML, CSS, Javascript, Typescript, C/C++, C#, Python, Java, SQL, GraphQL
Libraries and Frameworks : React, Next.js, Webpack, Vite, TailwindCSS, Redux, Jotai, Zustand, Node.js, Express.js, tRPC, PostgreSQL / MySQL, MongoDB, Redis, Kafka, Jest, Playwright
Tools: Git, Github, Jira, Postman, AWS, Docker, Terraform, Ansible

Certificates

IELTS 8.0

Projects

Epicola - E-commerce Website for Beverages   *June 2023 - July 2023*
Next - Typescript, Redux, GraphQL, PostgreSQL, MongoDB, Redis, Kafka, Stripe Webhook   🖥 Demo ⦿ Repo

- 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.
- Utilized Docker for containerization, experimenting with Terraform and Ansible for AWS EC2 instance setup.

Dengue Defense - IoT Integrated Application Solution for Dengue Fever   *January 2023 - March 2023*
Next - Typescript, Jotai, tRPC, PostgreSQL, Kafka   🖥 Demo ⦿ Repo

- Deepened understanding of publish-subscribe communication patterns, and leveraged the power of time series databases to efficiently manage telemetry data, retrieved from Kafka topics by polling mechanisms.
- 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   *March 2023 - May 2023*
React - Typescript, Vite, TailwindCSS, Zustand, Express.js, MongoDB   🖥 Demo ⦿ Repo

- 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.
- Created a robust server backend using Express, enabling efficient handling of RESTful API endpoints, integrating JWT-based authentication, ensuring secure user access.

Experience

Software Engineer Intern   *May 2021 - July 2021*
Vuthao Software Solutions

- Gained practical experience using Xamarin as the primary technology for cross-platform mobile applications.
- Contributed to maintaining code quality, documentation, and version control within the development process.

Education

Ho Chi Minh City University of Technology (HCMUT)   *HCMC, Vietnam*
Bachelor of Science in Computer Science   Expected 2023

Tran Dai Nghia Highschool for the Gifted   *HCMC, Vietnam*