Nguyen Hoang Long

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

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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

- 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

- 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

- 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