

NGUYỄN TRUNG NGUYỄN

Full Stack Developer

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Portfolio: <https://nguyendevportfolio.vercel.app>

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Summary

I'm a Full Stack Developer with 2 years of experience in Web Development, along with knowledge of UI/UX design. I enjoy solving front-end problems and creating the best experience for users. I also spend time learning new technologies and practicing to become a better developer.

Technical Skills

Programming Languages: JavaScript & TypeScript, Golang, PHP

Frontend: ReactJs, NextJs, Astro

Backend: NodeJs (ExpressJs, NestJs), Go (Gin)

Databases: PostgreSQL, MySQL, MongoDB, Redis

DevOps & Tools: Docker, Git, Linux

Foreign Languages: English (Basic – able to read technical documentation), JLPT N4 (in progress)

Experience

Fullstack Developer Intern | Tổng Công ty Công nghệ & Giải pháp CMC

- Learned how web development works by following senior developers and helping with daily coding tasks.
- Turned UI/UX designs into working web pages based on business requirements.
- Helped fix small bugs and improve front-end performance.

Fullstack Developer | MST Entertainment

- **Internal HR Management System:**
 - Tech Stack: React.js, Node.js, Express.js, MongoDB
 - Developed a full-featured internal Human Resources Management System from scratch to streamline core operations such as employee onboarding, attendance tracking, and leave management.
 - Designed and implemented secure authentication and Role-Based Access Control (RBAC) to enforce data access separation across departments.
 - Built dynamic dashboard interfaces for performance reviews and leave approval workflows, improving HR operational efficiency.
 - Developed RESTful APIs with optimized database queries to enhance system responsiveness for daily internal usage.
 - Structured scalable backend architecture following MVC principles and clean code practices.
- **YouTube Video Generator Use AI:**
 - Tech Stack: Next.js, NestJS, PostgreSQL, Redis (BullMQ), AI APIs.
 - Developed a modular backend using NestJS to handle script generation, voice synthesis, and scene data management.
 - Integrated third-party AI APIs (LLMs for script writing, Text-to-Speech for voiceovers) to dynamically generate video content.
 - Implemented an asynchronous job queue system using Redis + BullMQ to process heavy video rendering tasks (e.g., FFmpeg processing) in background workers.
 - Designed RESTful APIs for managing video projects, assets, and job status tracking.
 - Built a responsive timeline editor interface in Next.js, allowing users to preview and adjust AI-generated scenes before exporting.
 - Structured database schema in PostgreSQL for managing users, projects, scenes, and rendering jobs.
 - Applied authentication and basic access control to protect user-generated content.

Projects

Ichiraku Ramen Menu Online

- **Description:** A digital menu system that allows customers to scan a QR code at their table to view the menu and place orders using their smartphones.
- **Technologies:**
 - Front-end: HTML, CSS, JavaScript.
 - Back-end: NodeJs, PostgreSQL, WebSocket.
- **Features:**
 - Customers can access the menu without creating an account by connecting to the restaurant's Wi-Fi.
 - Implemented a device-based token system to keep the order session active, allowing customers to continue their order even after closing the browser for a short time.
 - Used WebSockets to sync the shared cart in real time, so multiple customers at the same table can add or edit items together.
 - Orders are sent to the kitchen immediately after being placed.
 - Staff can update order status (Cooking, Served,), and the changes appear instantly on customers' devices.
- **Source:**
 - Client & Back-end: <https://github.com/TrungNguyen248/ichiraku>
 - Admin: <https://github.com/TrungNguyen248/ichiraku-admin>

PixPaw

- **Description:** Built an e-commerce website for a canvas bag brand, focusing on product customization and modern user experience.
- **Technologies:**
 - Front-end: TypeScript, NextJs, React Three Fiber.
 - Back-end: Golang, Gin, PostgreSQL, JWT, Redis.
- **Features:**
 - Designed a modern fashion e-commerce UI.
 - Applied JWT for secure user authentication.
 - Built a 3D product customizer with React Three Fiber and Three.js.
 - Implemented image upload and decal placement on 3D models.
 - Developed shopping cart, checkout, ...
 - Implemented Redis-based checkout session handling.
 - Optimized images and 3D assets for better performance.
- **Source:**
 - Client: <https://github.com/TrungNguyen248/pixpaw-fe>
 - Admin: <https://github.com/TrungNguyen248/pixpaw-admin>
 - Backend: <https://github.com/TrungNguyen248/pixpaw-be>

Education

University Of Transport Technology (UTT)

- Information Technology - GPA 2.89/4