

Nguyen Mai Trung

SKILLS

Languages: JavaScript/Typescript (Advanced), PHP (Advanced), Golang (Junior), SQL (Advanced)
Databases: MySQL (Advanced), Redis (Intermediate), PostgreSQL (Junior)
Backend: NestJS, Express.js, Laravel
Frontend: React/Next.js, Vue/Quasar
Cloud & DevOps: AWS (EC2, Lambda, ECS, S3, CloudFront, CloudWatch), Docker
CI/CD & Automation: AWS CodePipeline, Jenkins, GitHub Actions

WORK EXPERIENCE

Full-Stack Developer Apr 2019 - Dec 2024
Vitalify Asia

- Developed and maintained full-stack web applications, including RESTful/GraphQL APIs, for 7 projects across 5 clients using NestJS, Laravel, React, and Vue, covering the full development lifecycle. Collaborated with cross-functional teams of 4-5 members per project
- Refactored inefficient codebases and developed reusable components, reducing development time for new features by 30%
- Optimized complex SQL queries through execution plan analysis, reducing the average execution time by 20%. Improved database efficiency with connection pooling
- Mentored a total of 5 junior developers across multiple projects, conducting code reviews and introducing best practices through pair programming and knowledge-sharing sessions. This improved development efficiency, reduced bugs by 20%, and decreased support tickets

Web Developer Mar 2017 - Apr 2019
Mulodo Vietnam

- Investigated and resolved recurring bugs in a legacy FuelPHP application by using log analysis, Xdebug debugging, and enhanced input validation, reducing issue reports by 20-30%
- Built RESTful APIs for a travel booking and a car-selling web application using Laravel, integrating OAuth2 authentication and handling 1000+ daily orders
- Developed unit tests using PHPUnit and Mockery, achieving over 90% test coverage
- Configured and automated LAMP stack provisioning with Vagrant and Ansible, ensuring consistent server setups

Web Developer Jul 2015 - Feb 2017
MangoAds

- Developed full-stack web applications and admin panels for food shopping websites (Jollibee, Wrap&Roll) using Laravel and Angularjs, connecting to third-party payment APIs
- Built and customized 20+ company profile/news websites with fully custom themes converted from Adobe Illustrator designs. Optimized on-page SEO and structured metadata, increasing Google search rankings by 30-50%
- Developed a tool for web scraping and automated post scheduling to customer websites, reducing manual content posting
- Deployed and managed websites on DigitalOcean or AWS EC2, optimizing server configurations for performance and security

PROJECTS

OSK Clinical Research

- Tech stack: NestJS, MySQL, Redis, AWS Lambda, Kafka, Vue
- Built an interactive dashboard in Vue (Quasar), visualizing ECG data using Chart.js and managing state with Vuex
- Enhanced APIs with JWT authentication via AWS Cognito, rate limiting, CORS configuration, and Swagger documentation auto-generated from code annotations
- Applied circuit breaker when calling third-party APIs to improve fault tolerance
- Processed patient data (weight, blood pressure, step count) from Kafka, stored it in the database, and sent health recommendation notifications using the Transactional Outbox pattern
- Developed daily report cron jobs using AWS Lambda with stream processing 10k+ records, compressed data using zlib to reduce storage costs, and uploaded to AWS S3

Video Management and Analytics

- Tech stack: Laravel, Golang, MySQL, Redis, AngularJS/Next.js, Tailwind CSS
- Migrated frontend from AngularJS to Next.js based on client requests, improving UI performance and maintainability. Used Tailwind CSS to speed up styling and ensure design consistency
- Enhanced existing video analytics functionality by introducing user-level insights: designed new high-performance tables using composite indexes and partitioning, implemented daily and weekly data aggregation cron jobs, and improved data retrieval with caching
- Built a Role-Based Access Control (RBAC) system with 25+ permissions across 8 subscription plans and implemented API middleware to restrict access to premium features
- Integrated 500+ unit tests into the CI/CD via AWS CodePipeline, reducing deployment failures by 25%. Automated API testing in Postman with Pre-request and Post-response scripts to handle authentication, dynamic variables, and response validation
- Set up automated front-end deployment to S3 using AWS CodePipeline, integrated with CloudFront for content delivery

EDUCATION

Computer Science

Sep 2010 - Apr 2015

Ho Chi Minh City University of Technology

GPA: 8.07

Relevant Coursework: Data Structures and Algorithms, Relational Database Systems, Web Development