Ha Quoc Viet
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Personal Statement

- Software development with 4+ years of experience.
- Backend-focused software engineer with primary expertise in system architecture, API development, and database optimization.
- Expertise in creating user interfaces for web and mobile using ReactJS, Next.js, and React Native.
- Expertise in designing scalable backend solutions using NodeJS, ExpressJS, NestJS, and event-driven architectures with Kafka and Redis.
- Strong foundation in Monolithic and Microservices system design (Event-driven architecture).
- Experienced in database management and optimization with MongoDB, PostgreSQL, and MySQL.
- Worked with both Windows and Unix operating systems.
- Hands-on knowledge in cloud deployment and infrastructure management using AWS (S3, EC2, RDS, Lambda, EventBridge).

Work Experience

CMC Global   Mar. 2025 - Now
Fullstack Developer & Technical Leader at CMC Global

- Interview with client for the Technical Leader position.

- Completed two interview rounds with senior developers and lead developers at the client company. Successfully passed the interviews.

- Led a team of 5 members to develop and deliver features for the client, demonstrating strong development skills and an excellent delivery process.

MXV Exchange Platform   Sep. 2023 – Mar. 2025
Fullstack Developer at Mercantile Exchange of Vietnam / Software Development

- The MXV Exchange Platform is an online trading platform for commodity derivatives in the energy and agricultural sectors. It supports real-time trading and enables domestic investors to access the global CQG platform via the FIX protocol, while also providing access to both real-time and historical market data.

  - Designed and implemented a microservices-based architecture to handle high-volume trading transactions.
  - Developed scalable backend APIs with ExpressJS and NestJS, ensuring secure and high-performance order execution.
  - Enabled vertical scaling by utilizing worker threads and Node.js built-in cluster to fully utilize CPU resources.
  - Integrated Kafka and Redis for real-time data processing and event-driven services.
  - Optimized database schema design for MongoDB and PostgreSQL to improve query performance.
  - Optimized database performance through efficient database configuration, connection pooling, SQL query tuning, and the implementation of master-slave architecture, partitioning, sharding, and other performance-enhancing techniques.
  - Managed Dockerized deployments with Nginx for scalable backend services.
  - Built the frontend in Next.js and React Native based on user requirements and Figma, integrating efficiently with the backend system.

- **Technologies**:

  - Languages: **JavaScript**, **TypeScript**.
  - Backend: **NodeJS**, **ExpressJS**, **NestJS**, **Kafka**, **Redis**.
  - Frontend: **Next.js**.
  - Database: **MongoDB**, **PostgreSQL**.
  - Deployment: **Docker**, **Nginx**.

VitaDairy & Traphaco ZMA (Second Job as a Freelancer)   May. 2023 – Jun. 2025
Freelance Developer at Tesosoft / Software Development

- Developed and optimized UI for VitaDairy's admin management
- Developed and optimized UI for Traphaco Zalo mini app.
- Refactored backend logic for Traphaco ZMA and Vitadairy loyalty application, fixing critical bugs.

- **Technologies**:
  - Languages: **JavaScript**, **TypeScript**.
  - Backend: **NodeJS**, **NestJS**, **Redis**.
  - Frontend: **React.js**.
  - Database: **PostgreSQL**.
  - Deployment & Cloud services: **AWS S3**, **AWS RDS**.

Amai Content   Dec. 2021 – Sep. 2023
Backend Developer at Amai Agency / Software Development

- Amai Content is an application designed to optimize content and manage multi-platform social networks such as Facebook, Google My Business, Instagram, and more.
  - Built a transaction management system for automated payments integrated with Vietcombank and A Chau Bank.
  - Developed a real-time messaging system for multi-platform content management using Facebook Messenger API.
  - Created backend services using Google Business Profile API, enabling data synchronization, analytics, and media management.
  - Developed an automated workflow for publishing content across multiple social media platforms
  - Designed efficient MongoDB and MySQL schemas to optimize database queries.

- **Technologies**:
  - Languages: **JavaScript**, **TypeScript**.
  - Backend: **NodeJS, ExpressJS**.
  - Database: **MySQL**, **MongoDB**.

JUSEI Master   Feb. 2021 – Dec. 2021
Backend Developer at Chainos Solution / Software Development

- JUSEI Master is a study application for the national examination for Judo therapy experts.
  - Developed data analysis and statistics features, optimizing performance of backend queries.
  - Designed and implemented scalable MongoDB schemas to handle large data sets efficiently.

- **Technologies**:
  - Languages: **TypeScript**.
  - Backend: **NestJS**.
  - Database: **MongoDB**.

ADDITIONAL SKILLS

- English Level: **B2**
- Version Control: **Git, GitHub, GitLab**.
- Development Tools: **Visual Studio Code, Jira, Trello**.
- Automation & Scraping: **Puppeteer, Selenium**.

EDUCATION

- University: **Vietnam National University - Ha Noi University of Science**
- Major: **Computer & Information Science Advanced Program**.