

# Ha Quoc Viet

DOB: 15/02/2000

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## PERSONAL STATEMENT

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- 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

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### CMC Global

April. 2025 - Now

*Fullstack Developer at CMC Global - Probationary*

- 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 and currently waiting for the next steps in the onboarding process.

### MXV Exchange Platform

Sep. 2023 – April. 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 – Now

*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

Nov. 2021 – Sep. 2022

*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

Mar. 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

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

## EDUCATION

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