

Mai Quốc Huy
Software Developer

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Education

Vietnam-Korea University of Information and Communication Technology (VKU)

2021 – 2026

Engineer in Global Information Technology GPA: 3.54/4.0

Experience

Designed and developed multiple full-stack web applications from concept to deployment, creating user-focused platforms that deliver seamless digital experiences across various domains.

Built responsive frontend interfaces and robust backend systems using modern web technologies, ensuring optimal performance and cross-device compatibility for enhanced user experience.

Integrated third-party services and APIs while implementing efficient database design, enabling scalable data management and smooth communication between application components.

Skills

Frontend:

- JavaScript (ES6+), TypeScript, React.js (Hooks, Context API), Next.js (SSR), Redux Toolkit, HTML5, CSS3, Responsive Design, Component Architecture

Backend:

- Node.js, Express.js, Nest.js, RESTful API Development, JWT Authentication, Middleware Implementation, Error Handling, Data Validation

Database:

- MongoDB (Mongoose ODM), MySQL (TypeORM), Schema Design, Query Optimization, CRUD Operations, Data Modeling

Development Tools:

- Git/GitHub, Docker, CI/CD, Redis Caching

Third-party Integration:

- PayPal SDK, Web3.js (Blockchain), File Upload Systems

Project

Name: E-commerce Web Application

2 Months

Github: [MaiQuocHuy/E-commerce-TTDN](https://github.com/MaiQuocHuy/E-commerce-TTDN) (github.com)

Team Size: Individual Project

Description: Designed and developed a comprehensive e-commerce platform from scratch, handling both frontend user experience and backend infrastructure to deliver a complete online shopping solution with modern web technologies and industry best practices.

Technical Implementation:

- Frontend: React.js with hooks, responsive CSS, dynamic routing, state management
- Backend: Express.js, middleware implementation, JWT authentication
- Database: MongoDB with Mongoose ODM, efficient schema design, data validation
- Integration: PayPal SDK, file upload handling

Key Responsibilities & Achievements:

- Built responsive frontend experience using React.js with component-based architecture, creating dynamic product listings, interactive shopping cart, and streamlined checkout process with real-time price calculations and inventory updates
- Developed robust backend API infrastructure using Express.js framework, implementing RESTful endpoints for user authentication, product management, order processing, and inventory tracking with proper error handling and validation
- Implemented secure payment processing with PayPal sandbox integration, handling payment workflows, transaction verification, order confirmation emails, and payment status tracking for enhanced user trust
- Created comprehensive admin dashboard featuring product CRUD operations, order management system, customer data analytics, revenue reporting with charts and graphs, and inventory monitoring tools

Name: Manga Reading Web Application

2 Months

Github: [MaiQuocHuy/metrucv](https://github.com/MaiQuocHuy/metrucv)

Team Size: Two people

Description: Collaborated in developing an innovative manga reading platform with blockchain integration, focusing on creating exceptional user interfaces and seamless reading experiences

Technical Implementation:

- Frontend: Next.js with TypeScript, React hooks, responsive CSS, dynamic routing, state management (Redux toolkit)
- Backend: Nest.js, RESTful API, middleware implementation, JWT authentication, Redis
- Database: MySQL with TypeORM, efficient schema design, data validation

- Integration: Blockchain (Web3.js) for update history tracking

Key Responsibilities & Achievements:

- Designed and implemented responsive frontend architecture using Next.js and TypeScript, creating type-safe, maintainable code with server-side rendering for improved SEO and performance optimization
- Built intuitive user interface components including manga card displays, reading panels, navigation systems, and user profile sections with consistent design language and smooth animations
- Developed advanced search and filtering functionality with real-time suggestions, category-based filtering, genre tagging system, and sorting options (popularity, latest, oldest, categories) for enhanced content discovery
- Created immersive reading experience with custom manga reader featuring page-by-page navigation, zoom functionality, reading progress tracking, bookmark system, and reading history management