Bui Duc Tri

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EDUCATION

Bachelor of Science in Software Engineering   **Jul 2019 - Dec 2024**
FPT UNIVERSITY   **GPA:** GPA: 3.3 / 4
  Relevant Coursework: Data Structures & Algorithms, Operating Systems, Computer Networking, Database Systems, Software Engineering Capstone.

WORK EXPERIENCE

Backend Developer   **Feb 2025 - Apr 2025**
Innorix   **Binh Thanh, Ho Chi Minh City**

Working with File-Transfer systems, including file storage and manipulation with S3, Azure, Google Cloud, and PC. Streamline file data processing between two locations with schedule automation.

+ **Optimize file transfer speed by 15%, by splitting chunk**s in the streaming file process
+ Implement gRPC to isolate two distinct servers, optimizing real-time streaming and handling large data loads.
+ **Integrated Gitlab CI/CD** for automated testing & deployment. **Increase work efficiency by 50%** without manual testing and deployment.
+ **Integrated with PM2** for Load-balancing workload, **reduced 70% latency requests,** provided large instance pools performance.
+ Deployment package using Docker, using multi-stage build with integrated testing. **Optimize 70% of package sizing** when deploy with CI/CD automated workflow.

Technologies: Nodejs (Typescript), Redis, SocketIO, Multer, S3, GCP, MySQL, MongoDB, Gitlab CICD, Docker, Prisma ORM.

Backend Developer   **Jul 2024 - Dec 2024**
Unicourse   **Thu Duc City, HCM City**

- Responsible for back-end implementation of assigned features.
- Managed and processed concurrent access for 500 active users simultaneously.
- Implemented a CI/CD pipeline to streamline and simplify complex deployment steps
- Optimized database calls with concurrency and caching, indexes, resulting in faster response times and higher availability.
- Enhanced Docker container performance through a multi-stage build process.

Technologies: NodeJS, TypeScript, MySQL, Prisma, Socket-IO, RabbitMQ, Redis, Docker, Github Action

Front-end Developer   **Jul 2023 - Dec 2023**
FPT SOFTWARE   **Thu Duc City**

- **(70%) tested** and validated screen features for cross-browser compatibility and performance.
- Demonstrated strong problem-solving skills by resolving complex UI issues, **leading to a 20% increase in user task completion rates.**
- Participated in customer feedback sessions, implementing key UI/UX improvements that **resulted in a 15% decrease in customer support inquiries.**
- Migrated the front-end codebase to TypeScript, **reducing the number of runtime errors by 70%** and improving overall code quality and maintainability.

Technologies: ReactJS, Typescript, React Hook Form, Yup, Jest, Prime React UI (React UI component).

PROJECTS

Sleepr ↗   **Mar 2025 - May 2025**

- Developed a microservices application using **Nestjs**, using **JWT** for authentication, create a **Monorepo** & shared library for common code, automate the build & deployment of **Dockerfiles** with a custom **CI/CD process**, connect **Microservices** together using a TCP transport layer

Unicourse Server - FPT Learning Platform ↗   **Jul 2024 - Dec 2024**

- Build an online learning system for FPT students and various courses mapped to an appropriate learning with a scalable backend using Nodejs with **ExpressJS**, integrated with **Prisma ORM**, payment process with **PayOS** by using encrypted data event with **webhook** automatically. Data management is managed with **MySQL**, caching with **Redis**. Using load-balacing with **PM2** and reversed proxy as **Nginx**. Packaging the application by using **Docker** and deployed by **Render**.

Unicourse Mobile - FPT Learning Platform ↗   **Jan 2024 - Apr 2024**

- Provide an online learning system for FPT students and various courses mapped to an appropriate learning route in Mobile platform.
- Developed a mobile application for IOS and Android platforms that increased user engagement by 20% Implemented modern software development practices to optimize code performance and improve user experience

Technologies: React Native, Typescript, React Hook Form, Yup, Redux

SKILLS

Language: Java , Javascript/Typescript (Nodejs), ReactJS, NextJS, NestJS, ExpressJS,

Technologies: MySQL, MongoDB, Firebase, Redis, BullMQ, SocketIO, RabbitMQ, PostgresQL

Others: Git, Docker, Docker Compose, Agile/Scrum, GCP, AWS (S3, EC2, RDS), Postman, Gitlab, Gitlab CICD, Swagger

Soft skills: Problem solving, team collaboration, high-adaptive in new technologies.

AWARDS

5 TIMES HONORABLE STUDENT OF SEMESTER by **FPT University**

TOP 10 TEAMS WINNING 50 MILLIONS SCHOOLARSHIP OF STARTUP PROJECT by **FPT University**

TOP 1 - ROCKET BOOST - AN ENTREPRENEURIAL COMPETITION by **FPT University**   **Nov 2024**

EXELLENT STUDENT ACHIEVEMENT AWARDS by **FPT University**   **Mar 2023**

CERTIFICATIONS

Scientific Research on AI in Education

Software Development Lifecycle by **University of Minnesota**

Basics of Web Development & Coding by **University of Michigan**

LANGUAGES

Vietnamese • English, TOEIC (650)