Tran The Anh

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EDUCATION

University of Information Technology   *Sep 2021 - May 2024*
Software Engineer | GPA: 3.3
Coursework: Data Structures & Algorithms, OOP, Software Architect, Databases

WORK EXPERIENCE

Kasper | *Back-end Engineer*   *May 2023 - Present*
- Resolved high availability issues by implementing a master-slave architecture for the database and applied the CQRS pattern.
- Implemented the Saga pattern to ensure data consistency across multiple databases.
- Technologies used: NodeJS, PostgreSQL, Kafka, Graphql, CQRS, SAGA.

WATA Corp | Full-stack Engineer   *Oct 2021 – Mar 2023*
- As a full-stack engineer, I was responsible for building both the first front-end and back-end components, as well as being involved in designing solutions for specific technical problems.
- Achieved a significant 20% improvement in React performance and refactored state management to avoid unnecessary component re-rendering.
- Optimized performance on the backend side by implementing the CQRS pattern, which separates commands and queries and using separate read and write databases.
- Technologies used: ReactJS, NestJS, PostgreSQL, MongoDB, Redis, RabbitMQ, AWS-S3, AWS-Cognito, AWS-SQS, AWS-Lambda, Twillio.

MedX | Front-end Engineer   *Feb 2022 – Aug 2022*
- Collaborated on the design and implementation of new features, enhancements to existing logic, construction of initial front-end components, and resolution of technical issues for a healthcare platform that connects students and doctors.
- Technologies used: ReactJS, NextJS, and self-hosted servers.

PROJECTS

Saga Microservices | [Personal Project]   *May 2023 - Present*
- The order process microservices provide a distributed architecture for handling the order placement, payment processing, and inventory management. It follows the saga pattern for managing long-lived transactions that span multiple services.
- Technologies used: NestJS, PostgreSQL, RabbitMQ, Docker, NGINX

Social | [Social-Server] [Social-Client]   *Dec 2022 - Present*
- Overall, Social is a project that I am very proud of, and it showcases my ability to develop full-stack applications with robust backend systems and intuitive user interfaces, it has been cloned more than 1000 times.
- Technologies used: ReactJS, NestJS, PostgreSQL, Redis, Elastic Search, RabbitMQ, AWS, Debezium, Docker, NGINX, CQRS pattern

TECHNICAL SKILLS

Frameworks and Tools: ReactJS, NextJS, VueJS, NuxtJS, NodeJS, NestJS, Kafka, RabbitMQ, PostgreSQL, Redis, Elastic Search, Debezium.
Design Patterns: Experience with design patterns including CQRS pattern and SAGA pattern.
Problem-solving: solving technical issues by leveraging knowledge of both front-end and back-end development.