Nguyen Xuan Quang

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INTRODUCTION

I am an aspiring backend developer with a strong foundation in building scalable systems and database optimization. I have hands-on experience with RESTful APIs using Node.js and have worked with relational databases like MySQL and PostgreSQL in both academic and personal projects. Additionally, I have practical experience with Docker for containerization and have explored AWS services for cloud deployment. Recently, I have been learning DevOps practices, including CI/CD workflows and infrastructure as code, to enhance my understanding of efficient deployment and system management. I am eager to apply and expand these skills in a professional environment while learning best practices in backend development and cloud infrastructure.

EDUCATION

University of Information Technology - VNUHCM
B.S. in Software Engineering, GPA: 8.72   *Sep 2022 – Present*

TECHNICAL SKILLS

Programming Languages: JavaScript, TypeScript, Python

Backend Development: NestJS, ExpressJS, Flask

Frontend Development: ReactJS, NextJS, HTML, CSS

DevOps & Cloud: Docker, AWS (EC2, S3, RDS, ECR), Jenkins, Git

Databases: MySQL, PostgreSQL, Oracle

OPENSOURCE CONTRIBUTIONS

TypeORM - Documentation Contribution   Sep 2024 - Feb 2025

Contribution: Added documentation for optimizing database queries using TypeORM.

Description: Wrote a guide on best practices for query optimization, covering indexing, lazy, eager loading, and caching.

Pull Request: PR-11068 (Merged into master)

PROJECTS

BMart - Minimart Management Website   Oct 2024 - Jan 2025

Description: A web application designed to manage minimart operations, including product inventory, customer data, and order management.

Member: 4 (1 fullstack developer, 1 backend developer, 1 frontend developer, 1 project manager).

My Roles:

* Designed and developed the database schema to support inventory, customer, and order management.
* Implemented backend functionalities for managing products, customers, and order workflows using NestJS.
* Containerized the application with Docker and deployed the system on AWS for production readiness.
* Set up a monitoring system using Prometheus and Grafana to track system performance, including metrics such as CPU usage, memory usage, and request latency.

Technologies: NextJS, NestJS, Docker, MySQL, AWS (EC2, RDS, ECR, S3).

Github:

* Frontend Repository
* Backend Repository

Bcare - Clinic Management Website   Mar 2024 - Jul 2024

Description: A web and mobile application designed to streamline clinic operations, including patient records, appointment scheduling, and doctor management. The system enables efficient management of clinic workflows and enhances patient care.

Member: 4 (1 fullstack developer, 1 backend developer, 1 frontend developer, 1 project manager).

My Roles:

* Designed the database schema on Oracle Database to efficiently manage patient records, appointment schedules, and doctor information.
* Developed backend APIs using Express.js to handle functionalities such as patient registration, appointment booking, and doctor management.
* Developed a mobile app using React Native, providing on-the-go access for doctors and patients to manage appointments and view medical records.
* Deployed the application on Oracle Cloud Infrastructure (OCI) for hosting and database management, ensuring scalability and reliability.

Technologies: Express.js, React, React Native, Oracle Database, Oracle Cloud Infrastructure.

Github:

* Frontend Repository
* Backend Repository
* Mobile App Repository

PUBLICATIONS

Aerial Data Exploration: An In-Depth Study from Horizontal to Oriented Viewpoint   Jan 2024
Published in IEEE Access

Description:

* Conducted a comprehensive survey on aerial data analysis techniques, focusing on horizontal and oriented viewpoints.
* Reviewed existing approaches for UAV-captured imagery processing, identifying key challenges and gaps in the field.
* Proposed future research directions to enhance efficiency and accuracy in aerial data analysis.

Publication Link: IEEE Access DOI: 10.1109/ACCESS.2024.1234567.

CERTIFICATIONS & LANGUAGE PROFICIENCY

* **TOEIC - RL**: 805.
* **TOEIC - SW**: 310.