

PHUNG DUC HAI

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EDUCATION

Vietnam National University – University of Science | GPA: 3.5

2020 - 2024

Bachelor of Science in Information Technology, Specialization: Software Engineer

EXPERIENCES

Inquisico – Software Engineer

Oct. 2023 – Aug. 2024

Technologies: Golang, PostgreSQL, Kafka, Elasticsearch, Docker, K8s, Keycloak, Stripe, JWT

- Developed and maintained a digital marketplace for SaaS using **Golang** and **PostgreSQL**, improving search functionality by optimizing **Elasticsearch** queries, resulting in faster and more accurate results for users.
- Increased system reliability by implementing a message queue architecture with **Apache Kafka**, enabling asynchronous retries while maintaining retry event order for processing service messages and SMTP emails.
- Optimized the **Stripe** payment gateway, handling subscription management, complex pricing models, and asynchronous upgrade/downgrade processes. Developed webhook handlers to monitor real-time Stripe events.
- Reduced transactions and rollbacks in API service by maintaining a CDC (Change Data Capture)-enabled data pipeline to synchronize data from multiple data sources, using **Debezium** and **Apache Kafka**.
- Maintained an authorization system integrated with **Keycloak** for identity management, enhancing user experience and system security by packaging redirect URLs into **JWS**.

Teko – Software Engineer Internship

Jun. 2023 – Oct. 2023

Technologies: Golang, MySQL, Microservices, CI/CD, gPRC, Unit Testing, Technical Writing

- Optimized system performance by reducing dependencies and response time by **20%** through the application of lazy initialization for third-party services.
- Enhanced code quality and reliability by setting up test containers and writing unit tests for methods and functions.
- Facilitated faster issue resolution by using **Grafana** to monitor and debug errors across various services.
- Authored in writing and designing API, ERD, technical documentation, and release notes.
- Ensured stability of the application by releasing and hot-fixing bugs in staging and production environments.
- Participated in **AGILE** methodologies and advanced software development processes.

TECHNICAL SKILLS

Programming Languages: Golang, Python, JavaScript, Java

Database Management Systems: MySQL, PostgreSQL, MongoDB, Elasticsearch

Container Orchestration: Docker, Kubernetes

Others: Microservices, Kafka, gPRC, TCP/UDP, Unit Testing, ACID, SOLID, AGILE, Linux, OOP, Design Pattern, GIT

English: IELTS 7.0

PROJECTS

GoFast | *NodeJS, Express, Cronjob, Google Maps SDK, Redis, MongoDB, Socket, Technical Docs*

- Enabled instant updates for user and driver availability by developing a real-time booking system with **Socket.io**.
- Streamlined transaction status management by implementing automated scheduling with **cron jobs**.
- Improved data retrieval performance by implementing **Redis** caching and authored technical documentations.

Shopaholic | *NodeJS, Express, ReactJS, Redux, MySQL, RESTful API*

- Ensured accurate transaction details and data integrity for orders by implementing **snapshot** data architecture, preserving information despite product changes.
- Enhanced user experience across devices by developing responsive web applications with client-side rendering.

PUBLICATION

PRICAI – 2024 | VisiDroid: An Approach for Generating Test Scripts from Task Descriptions for Mobile Testing