NGUYEN HOANG PHUC

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EDUCATION

VNUHCM - University of Science

Bachelor of Science in Software Engineering *Overall GPA: 3.84/4.0*

WORK EXPERIENCE

SPARTAN X TECHNOLOGY | *Software Engineer* March 2024 - Present

Space Target Observable Application | *Dropwizard/Kotlin, React/TypeScript*
- Developed APIs with a seamless code-generation workflow, leveraging Gradle tooling to accelerate development. Reduce boilerplate code by nearly 20%
- Implemented complex charts using Apache ECharts to handle millions of rows of data.
- Built a reusable npm package for Stellarium integration (based on WebGL).

FinTech SaaS Product for US Clients | *Micronaut/Kotlin, React/TypeScript* June 2024 - March 2025
- Applied the Event Sourcing pattern to asynchronously assess user criteria with zero-locking time.
- Implemented a Form Module to reduce engineering effort and speed up onboarding for new institutions.

PROJECTS

Khoainats - A Golang Application | *Go, NATS, Gorm* March 2025 - Present
- Implemented a seamless flow for API development using a schema-first approach, resulting in a cleaner and faster.
- Embedded a NATS server for integration with IoT devices, following the MQTT protocol.
- Applied the EAV pattern for authentication design, making the system flexible for multi-tenant architecture.

Blended Eduhub | *NestJS, React Native, PostgreSQL, Redis* September 2024 - Present
- Deployed the application to a VPS with CI/CD pipelines configured via GitHub Actions.
- Built a serverless function for dynamic web front-end routing.
- Built a RAG module, take advantage of Queue Groups to ensure consistency and high availability

Other Projects
- Built a SaaS application with ReBAC authorization, inspired by Google Zanzibar.
- Implemented the Raft consensus algorithm from scratch in Go, including a peer-to-peer network and leader election via gRPC.
- Developed blockchain scripts to simulate transactions on Blockchain Testnet3.
- Created a MapReduce application with Hadoop, simulating the TF-IDF algorithm on the BBC dataset.

SKILLS

Languages: Kotlin (Proficient), JavaScript (Proficient), Go (Intermediate)
Technologies: Micronaut, Dropwizard, React, NestJS, TypeScript, Terraform, PostgreSQL, Redis, Gradle

ACCOMPLISHMENT

KMS Technology | *Scholarship* September 25 2023
KMS Back2School Scholarship 2023.

CERTIFICATE

Toeic: SW(290/400), LR(800/990) Jul 2024