

# Quach Dang Thoai An

I'm a DevOps Engineer specializing in designing and implementing streamlined, automated workflows, monitoring to facilitate seamless software development and deployment

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## Relevant experience

### DevOps Engineer - Hash Consulting Group Dec 2021 - Present

- Use Docker to containerized applications, backend service
- Use Jenkins to apply CI/CD for automate process build, test, security and deploy applications from Git Source control to Kubernetes Deployment
- Implement Logging, Monitoring to services / projects with Grafana Stack: Tempo, Mimir, Loki, Grafana
- Utilize the Otel Collector/Grafana Agent to collect, process, and export metrics, logs, and traces within a micro-services system.
- Implement auto scaling pods, nodes using Karpenter
- Apply Terraform and Helm to create templates for the efficient management of various resources, including AWS Services, Jenkins, Kubernetes deployment, DataDog, Grafana, Prometheus, and more.
- Establish and manage Kafka, Kafka Connector for ensuring high availability in support of queue and stream feature interactions.
- Deploy and oversee Hadoop to facilitate the support of streaming Spark job processes.
- Leverage the Kubernetes Client SDK to interact with APIs, enabling the seamless deployment and shutdown of AI model image within Pods in a Kubernetes cluster for backend services.
- Use AWS Cloud SDK to build APIs to support business feature create subdomain in route53, dynamic provisioning dedicated EC2 node in for tenant customer

### Mobile Developer - Phenikaa Maas Jan 2020 - Dec 2021

- Use AndroidSDK & TensorFlow Lite to integrate builded AI Model to edge devices
- Use Flutter/React Native to build applications for mobile app projects.
- Work closely with backend developers and the business department to meet demanding project requirements.

## Skills

### Programming Languages

Golang, Python, Javascript, Bash, PowerShell

### Domain of understanding

AWS Cloud: Glue, S3, RDS, VPC, IAM  
Blockchain: Ethereum, Geth, POA  
Data Streaming: Spark, Kafka  
System Design: Microservice, HA, Load Balancer, Event Driven Design

## Selected project

### GauVendi

An event-driven design is employed in a microservices booking system, with Kafka as the core component. The system incorporates Auto Scaling in Kubernetes to dynamically adjust resources based on traffic demands.

### DataSpire

A microservices data platform has been established, featuring built-in AI models for seamless customer integration with near real-time latency. This is achieved through the integration of Kafka, Spark, and online store functionalities.

\* Explore additional delivery projects on <https://anquach.dev/#jobs>

## Education

### Can Tho Medical College

Pharmacy 2015 - 2018

## Interest

Learn & research new technology  
Coding is a hobby