Phan Đình Khôi Nguyên

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SKILLS

Languages:	Python, JavaScript, Bash, SQL, Golang
Cloud Platforms:	Azure (VM, PostgreSQL, IoT Hub, Container App, Static Web App), AWS (EC2, Lambda)
Tools:	Linux, Docker, Kubernetes, Helm, Terraform, GitLab CI, GitHub Actions, Jenkins, PostgreSQL

EDUCATION

VNU Ho Chi Minh City University of Technology   Ho Chi Minh City, Vietnam
*Bachelor of Science in Computer Science; **GPA: 3.10/4.00***   Expected Nov 2026

PROJECTS

Local Kubernetes Cluster

Kubernetes, Helm, GitLab CI, ArgoCD, Docker

- Provisioned a virtualized multi-node Kubernetes cluster using Talos Linux and Vagrant.
- Created a Helm chart to deploy a Golang application to the Kubernetes cluster, using Kubernetes Operators to define PostgreSQL and RabbitMQ clusters.
- Implemented a CI/CD pipeline using GitLab CI and ArgoCD to streamline the deployment process.

Smart Farm Management Website | *GitHub* | *Architecture Diagram*

ExpressJS, PostgreSQL, Azure, Terraform, Jenkins, Docker

- Utilized Azure IoT SDK to manage data processing and Cloud-to-Device messaging in a ExpressJS backend.
- Used Terraform to define and provision Azure resources, including IoT Hub and a three-tier web application.
- Implemented a multi-stage Dockerfile to containerize the ExpressJS backend to deploy to Azure Container App.
- Used Jenkins to automate building and publishing the application to Azure.

Social Network for Studying Website | *GitHub*

ExpressJS, PostgreSQL, Jest, GitHub Actions

- Developed a RESTful API using ExpressJS and PostgreSQL to efficiently manage user accounts, posts, and comments.
- Wrote unit tests using Jest to ensure the correctness of the API endpoints.
- Implemented a CI pipeline using GitHub Actions to automate the testing process.

CERTIFICATES

TOEIC 985   *April 2025*