

Phan Đình Khôi Nguyễn

☎ +84 379 866 367 | ✉ kngondajob@gmail.com | 🌐 GitHub | 📍 Ho Chi Minh City, Vietnam

SKILLS

Languages: Python, JavaScript, Bash, SQL, Java
Databases: PostgreSQL, Redis
Cloud Platforms: Azure
Tools: Linux, Docker, Git, GitHub Actions, Jenkins, Terraform, Jest

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 Jun 2026

PROJECTS

- Smart Farm Management Website** | *GitHub* | *Architecture Diagram* Jan 2025 - Now
Team leader, DevOps, Backend
- Used **Terraform** to automate the deployment of Azure resources, including IoT Hub and a three-tier web application, utilizing VNet integration and Key Vault for secure communication and secrets storage.
 - Utilized **Azure IoT SDK** to manage data processing and Cloud-to-Device messaging in a Javascript backend service.
 - Implemented a multi-stage **Dockerfile** to containerize the ExpressJS backend server and deployed it to Azure App Service, optimizing the resulting image's size.
 - Used **Jenkins** to automate building and publishing the application to Azure.
 - Managed a local **Mosquitto** MQTT broker to facilitate communication between IoT devices and the cloud.
- Renting and Reselling Books Mobile App** | *GitHub* Jan 2025 - Now
Team member, DevOps, Backend
- Used **Terraform** to automate the deployment of Azure managed PostgreSQL, Redis service and a Virtual Machine for the backend server, utilizing VNet integration and Key Vault for secure communication and secrets storage, and cloudinit to initialize Virtual Machine.
 - Used **Jenkins** to automate building and pushing the mobile app's apk to Google Drive.
 - Developed a RESTful API using **ExpressJS** and PostgreSQL to efficiently manage user accounts and books.
- Social Network for Studying Website** | *GitHub* Sep 2024 - Dec 2024
Team leader, Backend
- 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.
 - Used **GitHub Actions** to automate running the unit tests on every push to the main branch.
- Local Kubernetes Cluster** | *GitHub* April 2025 - Now
Solo project
- Managed a virtualized multi-node Kubernetes cluster using **Talos Linux** and **Vagrant** on a physical host machine
 - Deployed a simple backend server connecting to PostgreSQL and Redis

CERTIFICATES

TOEIC 985 April 2025