

Phan Đình Khôi Nguyễn

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SKILLS

Languages: Python, JavaScript, Bash, SQL, Java
Frameworks: ExpressJS, Spring Boot
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
- Used **Terraform** to automate the deployment of Azure resources, including IoT Hub, Azure Function, and a three-tier web application, utilizing VNet integration and Key Vault for secure communication and secrets storage.
 - Developed a Python Azure Function that processes data from IoT devices, and a JavaScript backend service that manages Cloud-to-Device messaging using **Azure IoT SDK**.
 - 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
- 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.
 - 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
- Developed a RESTful API using **ExpressJS** and PostgreSQL to efficiently manage user accounts, posts, and comments.
 - Implemented a **Docker Compose** file to run the ExpressJS server and PostgreSQL database in separate containers, allowing seamless local development experience.
 - 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.