

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 <i>Bachelor of Science in Computer Science; GPA: 3.10/4.00</i>	Ho Chi Minh City, Vietnam Expected Jun 2026
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PROJECTS

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| Smart Farm Management Website <i>GitHub</i> <i>Architecture Diagram</i> | Jan 2025 - Now |
| <ul style="list-style-type: none">Deployed a smart farm system on Microsoft Azure that collects sensor data from IoT devices and allows users to monitor and control the farm remotely.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 an Azure Function using Python that listens to messages from IoT Hub and stores them in a PostgreSQL database.Implemented a multi-stage Dockerfile to containerize the ExpressJS backend server and deployed it to Azure App Service, optimizing the resulting image's size.Managed a local Mosquitto MQTT broker to facilitate communication between IoT devices and the cloud. | |
| Renting and Reselling Books Mobile App <i>GitHub</i> | Jan 2025 - Now |
| <ul style="list-style-type: none">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.Implemented a Jenkinsfile to automate building and pushing the mobile app's apk to Google Drive on a local Linux Jenkins server as part of the CI/CD pipeline.Developed a RESTful API using ExpressJS and PostgreSQL to efficiently manage user accounts and books, utilizing Redis for efficient caching. | |
| Social Network for Studying Website <i>GitHub</i> | Sep 2024 - Dec 2024 |
| <ul style="list-style-type: none">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.Utilized GitHub Actions to automate running the unit tests on every push to the main branch. | |