

# Phan Đình Khôi Nguyễn

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## SKILLS

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**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

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**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

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- 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.