TRAN NHU DUC

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Blog: https://ductn.info

EDUCATION

Posts and Telecommunications Institute of Technology, Ha Noi   September 2016

· B.S. in Electronics and Telecommunications.
· Research about Wireless Sensor Network.
· Member of a programing club.

VNNET Academy   November 2017

· Cisco CCNA Routing and Switching course.

EXPERIENCE

FPT Corporation   March 2021 - Present
Cloud Engineer   *Cloud Team*

· Build infrastructure and implement Magento app to AWS.
· Develop the python scripts for network automation.
· In common techniques: Kubernetes, Ansible, Docker, Cloudformation.

Viettel Networks Corporation   July 2020 - February 2021
Cloud Engineer   *Microservices Team*

· Develop the custom ansible modules of discovery-services system.
· Develop the functioning of auditing services database from two systems.
· Change current workloads of an API system on Kubernetes.
· Research solutions to deploy integrated monitoring, logging for K8S (Model EFK: Elasticsearch-Fluentbit-Kibana).
· Develop the functioning of a web application that designed to help manage and document computer networks.
· In common techniques: Kubernetes, Ansible, Docker, Jenkins, Django, Prometheus.

FPT Telecom   April 2019 - November 2019
Internship   *Data Team*

· Build tools for data analysis and automation tools for network devices.
· Design and develop an internal Web to manage documents.

TECHNICAL EXPERTISE

Programming Languages:	C/C++, Python, Javascript(NodeJS).
OS:	Linux, Window.
Databases:	SQL (MySql, Postgresql), NoSQL (MongoDB), In memory db (such as Redis).
Container Runtime:	Docker, Containerd.
IT Automation Tools:	Ansible.
Infrastructure Provisioning:	Terraform, Cloudformation.
Infrastructure:	Kubernetes, Monitoring toolchain such as Prometheus, Grafana, Fluent bit.
SCM:	Git, Github, Gitlab.

PERSONAL PROJECTS

Netbox   2020 - Present

- Contributor of Netbox Community.

- NetBox is an IP address management (IPAM) and data center infrastructure management (DCIM) tool. Initially conceived by the network engineering team at DigitalOcean.

- Technologies:

  - Language: Python (Django).

  - Database: PostgreSQL.

  - Cache: Redis.

- Github:

  - Netbox: https://github.com/netbox-community/netbox.

  - Netbox-docker: https://github.com/ductnn/netbox-docker/tree/ductnn/config-dev-enviroment.

Terraformer   Mar 2021 - Present

- Build quick start for deployment infra to AWS and GCP with Terraform and Ansible.

- Technologies:

  - Language: Python.

  - Infrastructure Provisioning: Terraform.

  - IT Automation Tools: Ansible.

- Github: https://github.com/ductnn/terraform-til

My blog   2020 - Present

- Write my blog

- Technology: Github pages

- Link: https://ductn.info

Funny API   May 2020

- Develop a funny web for bookstore.

- Technologies:

  - Language: Javascript (NodeJS).

  - Framework: ExpressJS.

  - Database: PostgreSQL.

- Github: https://github.com/ductnn/postgreSQL-demo

IoT Smart Farm   December 2019

- Plan and design a system for sensor devices. Build a web to manage all of sensor and monitoring logs from databases.

- Technologies:

  - Language: Javascript (NodeJS), C.

  - Framework: ExpressJS, Angular.

  - Database: MongoDB.

- Github: https://github.com/ductnn/Smart-Garden-Demo

CERTIFICATE AND PAPER

CCNA Certificate   950/1000.

PAPER - FAIR   October 2020
Researcher
· Researcher of FAIR - Fundamental and Applied Information Technology.
· Paper: Nguyen Thi, Pham Nhu Viet Anh, Tran Nhu Duc, Hoang Trong Minh, "AN EFFICIENT ENERGY-AWARE ROUTING SCHEME FOR MULTI-HOP SENSOR NETWORKS", FAIR, vol.13, no. 10, 2020.

PAPER - REV   December 2020
Researcher
· Researcher of REV - The Radio and Electronics association of Vietnam.
· Paper: Hoang Trong Minh, Tran Nhu Duc, Pham Nhu Viet Anh, Le Hai Trieu, "A new energy efficient clustering scheme in WSNs", REV-ECIT, vol.23, no. 12, 2020.

SKILLS

English   Toeic.
Computer   Word, PowerPoint, Excel.