

# TRAN NHU DUC

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Blog: <https://ductn.info>

## EDUCATION

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### Posts and Telecommunications Institute of Technology, Ha Noi

September 2016

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

### VNNET Academy

November 2017

- Cisco CCNA Routing and Switching course.

## EXPERIENCE

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### FPT Corporation

*Cloud Engineer*

March 2021 - Present

*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

*Cloud Engineer*

July 2020 - February 2021

*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

*Internship*

April 2019 - November 2019

*Data Team*

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

## TECHNICAL EXPERTISE

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### 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

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### 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

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**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

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**English**      Toeic.

**Computer**      Word, PowerPoint, Excel.