

# 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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### 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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| <b>Programming Languages:</b> | C/C++, Python, Javascript(NodeJS)  |
| <b>OS:</b>                    | Linux, Window  |
| <b>Databases:</b>             | SQL (MySQL, Postgresql), NoSQL (MongoDB), In memory db (such as Redis)   |
| <b>Container Runtime:</b>     | Docker   |
| <b>IT Automation Tools:</b>   | Ansible  |
| <b>Infrastructure:</b>        | Kubernetes, Monitoring toolchain such as Prometheus, Grafana, Fluent bit |
| <b>SCM:</b>                   | Git, Github, Gitlab  |

## PERSONAL PROJECTS

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### 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 used are MongoDB, NodeJS, Express and Angular.
- Github: <https://github.com/ductnn/Smart-Garden-Demo>

### **Funny API**

May 2020

- Develop a funny web for bookstore.
- Technologies used are PostgreSQL, NodeJS and Express.
- Github: <https://github.com/ductnn/postgreSQL-demo>

### **My blog**

January 2020

- Design my blog with Github pages.
- Link: <https://ductn.info>

## **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.