# NGUYEN NHAT TRUNG

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## EDUCATION

**08/2021 - Present**

**Master of Science, LUT University, Finland**
Programme: Data Analytics
- Machine Learning & Neural Networks
- Data Analysis with Python
- Amazon Web Services
- Cloud Platforms

**08/2016 - 06/2020**

**Master of Science (Distinction), Aalto University School of Engineering, Finland**
Programme: Energy Technology (GPA: 4.3/5)
Thesis (Grade: 5): *Simulation-based multi-objective optimization of an office building's envelope and its HVAC systems in Vietnam*

**08/2011 - 06/2015**

**Bachelor of Engineering (Distinction), Metropolia University of Applied Sciences, Finland**
Programme: Environmental Engineering (GPA: 4.5/5)
Thesis (Grade: 5): *Adsorption of phosphorus from wastewater onto biochar: batch and fixed-bed column studies using factorial design and regression analysis*

## SKILLS

**Programming languages:** Java, Typescript, Javascript, Python

**Frameworks:** Spring Boot, React, Express, Bootstrap

**Databases:** MariaDB, MongoDB, Redis

**DevOps:** Docker, AWS, CI/CD, Shell scripting

**Data Analysis Libraries:** numpy, pandas, scikit-learn, matplotlib

**Languages:** Vietnamese (native), English (fluent), Finnish (basics).

## HONOURS

**Dean's List 2016-2017**: The Dean's List of the Aalto's School of Engineering recognizes students who have made excellent progress in their studies while maintaining a high grade-point average over an academic year.

**Metropolia Foundation Award**: Prompt progress in the studies with excellent grades and high-quality thesis.

## WORK EXPERIENCE

**05/2021-Present**

**Product Specialist / Software Engineer, Remote Freelance, Finland**

- Collaborate with development teams, and discuss & propose project solutions and/or requirements.
- Take responsibility in the configuration layer of the software product.
- Contribute to the migration of the product to AWS and the development with Java/Grails.

**10/2020-07/2021**

**Software/DevOps Engineer, CMC Global, Vietnam**

- Create data ETL workflows using Glue, and data visualization using Redshift for a banking system.
- Conduct research and implement an automation workflow with S3, EC2, SQS, Lambda and Cloudwatch for a financial company.
- Write shell scripts for common DevOps tasks such as sending logs to S3, disk space alert, etc.
- Write Python scripts to retrieve data from excel inputs on S3 and perform financial calculations

| 07/2019-08/2020 | **Building Performance Consultant, Boydens Engineering, Belgium** |

- Create thermal simulation workflows using Grasshopper (visual programming) and Python in Rhinoceros 3D.
- Perform dynamic thermal simulations and daylight simulations to evaluate different building design strategies using IESVE & DesignBuilder.
- Collect and analyze energy consumption data from buildings using statistical techniques to detect inefficient operations, and design teams with useful data to achieve better designs in future projects.

## SCHOOL INDUSTRIAL PROJECT

| 10/2015-05/2016 | **Team Member, Innovation Project (NDA) with Mitsubishi Electric R&D Scotland (a budget of 3000€ for each member)** |

The multidisciplinary project's objective was to envision the future of HVAC systems and citizens' lives in the Nordic in 2035 based on megatrends research and scenario planning.
Link: https://www.idbm.aalto.fi/industry-projects/2015-16/mitsubishi?rq=mitsubishi
- Manage overall travel plans, documents, and milestone deadlines of the project.
- Conduct research and literature review on forecasts of climate change and potential of renewable energy.
- Create different scenarios, and radical ideas together with other team members from different backgrounds using several brainstorming techniques

| **HOBBIES** | I am a long-time badminton player. I like travelling, reading books and watching scientific documentaries related to psychology and cosmology. |