

## TRANG DUONG

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### EDUCATION

#### Northeastern University

*Master of Science in Industrial Engineering (GPA: 3.3/4.0)*

#### Centria University of Applied Sciences

*Bachelor of Engineering in Industrial Management (GPA: 3.65/4.0)*

#### Saxion University of Applied Sciences

*Exchange Program of International Finance and Accounting*

Sep 2021 – May 2023

Boston, US

Sep 2016 – April 2021

Ylivieska, Finland

Feb 2018 – Aug 2018

Enschede, Netherlands

### SKILLS

**Programming Languages:** Python (Library: NumPy, Pandas, Matplotlib), R

**Data Analysis:** SQL, MS Excel, Tableau, Power BI

**Others:** Git, SAP, Project Management, Solidworks, SEO, Copywriting, Communication & Presentation (MS PowerPoint), Customer Service

**Certifications:** SAP Certified Application Associate – Business Process Integration with S/4HANA 1809, Key Technical Topics in a System Conversion to SAP S/4HANA, Occupational Safety Card

### DATA ANALYSIS PROJECTS

#### Stochastic Simulation Model - Covid-19 Hospitalization

Jan 2022 – May 2022

*Simulation and Analysis IE7215 – Northeastern University*

Boston, US

- Developed a discrete-event model to find an optimal solution for a hospital's resource allocation problem, which ultimately minimizes COVID patients' death, using *Python* and *Arena*.
- Computed a non-stationary *Poisson* process of patients' arrival rate and measured a correlation between severity level and average patient's recover time.
- Quantified uncertainty and conducted sensitivity analysis in Stochastic simulation, utilizing *Bootstrap* method to resample inputs and a *Bayesian* framework.

#### Regression Model of Life Expectancy and Related Variables

Mar 2022 – May 2022

*Statistic Methods in Engineering IE7280 - Northeastern University*

Boston, US

- Examined the series of input variables from 60 countries in relations to the corresponding output results, particularly identified a statistical relationship between three pairs of variables (Life Expectancy, Domestic Government Health Expenditure and Alcohol Consumption).
- Analyzed results from *ANOVA table* and formulated *T-test/F-test* to estimate the effect of two explanatory variables on the depend variable (Life Expectancy) by conducting *Single Linear and Multi Linear Regression*.

### PROFESSIONAL EXPERIENCE

#### Logistic and Trade Coordinator Internship

Dec 2019 – Mar 2020

*Mainam Manufacture and Distribution JSC*

Hanoi, Vietnam

- Analyzed and visualized monthly inventory data using *Excel* and *Tableau*.
- Conducted market research on a new raw material supplier, virgin HDPE, from Korea and Taiwan. Then managed the RFQ process with suppliers, in which, negotiated a better price resulting in a 5% cost saving for the company.
- Successfully advertised and sold a new product to an existing supplier, which was not my original job responsibility (import coordinator).
- Developed profitable relationships with clients by offering excellent customer service, correctly assessing client's credit worthiness, and triaging clients' inquiries to proper departments.

#### Production and Logistic Assistant Internship

April 2019 – Dec 2019

*Kotirannan Vihanesjaloste Ltd.*

Ylivieska, Finland

- Improved the inventory report process for planning department, which in turn, reduced company-wide overhead effort by 40%.
- Invented a more cost-effective packaging solution, which drove cost reduction throughout supply chain by 5-10%, by analyzing production and shipping data using *Excel* and *SQL*.
- Organized orders more systematically which reduced processing time down to a minimum.

#### Copywriter

Jan 2016 – Jan 2019

*VTC Online Corporation*

Hanoi, Vietnam

- Generated targeted content for consumers using *Google AdSense* aiming and successfully increased click-through rates of visitors by 30% as well as bringing new customers for VTC.
- Compiled comprehensive articles on Cloud Computing and Gaming for VTC's official blog using *Surfer SEO* and *Grammarly Tools*.
- Utilized *Google Analytics tools* to analyze pages for keyword optimization.

### EXTRACURRICULAR EXPERIENCE

#### Fundraiser for SOS Children's Villages Project

Sep 2020 – Nov 2020

*Face2Face Design and Communication Agency*

Helsinki, Finland

- Led a cross-functional team to evaluate customer feedback; leveraged social media strategies to digitalize fundraising activities that greatly increased engagement with reader by 30%.
- Planned marketing events and assisted in writing press releases to increase the program's visibility. By the end, marketing materials attracted donations that exceeded 20% more than the target goal.