

# TRUONG NGOC THAO VY

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**Gender** Female  
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## ABOUT ME

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I am a motivated and creative student who is constantly looking for opportunities to grow. A welcoming and professional work environment is what I'm after.

## EDUCATION

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2021 - Present **International University - Vietnam National University HCMC**  
Major: Logistics and Supply Chain Management  
GPA: 3.72/4

## WORK EXPERIENCE

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March 2023 - Present **Icantech - Galaxy Education**  
Python Teaching Staff  
*Key Responsibilities:*

- Taught Python programming for students between the ages of 12 and 18
- Ensured the quality of students learning, practice, and homework completion
- Mentored students with their projects
- Evaluated students' learning progress
- Commented on documents for Icantech

## ACADEMIC RESEARCH AND PROJECTS

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February 2023 - October 2023 **Enhancing Learning to Cuts Approach for Solving NP-hard Problem**  
Co-author

- Conducted a novel method, name as Enhanced Learning to Cut (EL2C) to improve the solving time of NP-hard problems such as Set Cover, Knapsack, Facility Location, Job Shop Scheduling, or Traveling Salesman Problems
- Applied the Supervised Learning (SL) model along with the Multiple-Criteria Decision Making (MCDM) scoring framework to develop the method
- Applied Python programming to implement method
- Results showed that the proposed method significantly improved solving time
- Written a paper with 8000 words and submitted it to Operations Research

February 2023 - May 2023 **Capacitated Vehicle Routing Problem (CVRP) for Fuel Transportation in Ho Chi Minh City**  
Leader

- Built a Mixed-Integer Linear Programming (MILP) model based on the CVRP to determine the optimal route that minimize total distance from the gas depot to the gas stations while simultaneously meeting demands
- Applied CPLEX software to solve problem
- Results showed the optimal route for tank trucks with reasonable solving time
- Written a report with 4000 words and defended it with the course teacher

## HONORS & AWARDS

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2021	International University Full tuition scholarship for 2 years
2021	Odon Vallet scholarship 2021
2021	Third prize in National Merit Competition for Outstanding student in Chemistry 2021
2021	Second prize in Provincial Merit Competition for Outstanding student in Chemistry 2021
2020	Consolation prize in National Merit Competition for Outstanding student in Chemistry 2020
2020	Second prize in Provincial Merit Competition for Outstanding student in Chemistry 2020

## SKILLS

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<b>Languages</b>	English Vietnamese
<b>Microsoft office</b>	Excel Word Powerpoint Access
<b>Programming languages</b>	Python SQL
<b>Optimization tools</b>	CPLEX Python.Mip Python.Gurobi
<b>Data visualization tools</b>	Power BI
<b>Personality</b>	Teamwork Analytic Time management Research

## ACTIVITIES

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Jan 2022 - July 2022	<b>IU Soft Skills Club</b> Member of Marketing <i>Key Responsibilities:</i> <ul style="list-style-type: none"><li>• Written content for marketing: media posts for events on Facebook, media support for sponsors or other organizations</li><li>• Worked with other departments to organize talkshows, seminars and webinars about soft skill for students</li><li>• Participated in organize Z-debate which is a competitive for students from universities across the Ho Chi Minh city</li></ul>
Nov 2021 - Dec 2021	<b>IU Social Work Team</b> Volunteer <i>Key Responsibilities:</i> <ul style="list-style-type: none"><li>• Participated in organize Nang Buoc Toi Truong event which helps disadvantaged kids at Mái Ấm Nhân Ái</li></ul>

- Created handmade gifts
  - Guided kids in dancing
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