DUC TRAN

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EDUCATION

Algoma University, Canada *January 2019 - April 2022*
Bachelor of Computer Science GPA: 3.9
Minor in Music

WORK EXPERIENCE

School of Computer Science, Algoma University September 2019 - April 2022
Teaching Assistant

- Held weekly sessions to provide help to students
- Assessed assignments and quizzes
- Worked 10 hours per week while being a full-time student

School of Computer Science, Algoma University May 2021 - September 2021
Research Assistant

- Used OMNeT++, Veins and SUMO to create a traffic simulation
- Optimized VANET communications using reinforcement learning in Python
- Researched and implemented result from academic papers

Security Architecture & Standards, OLG January 2020 - December 2020
Cooperative Education Student

- Developed web applications using Share Point, Power App and Power Automate
- Provided data-driven insights to senior cybersecurity consultants using Power BI
- Worked full-time while maintaining work-school balance

TECHNICAL SKILLS

Programming Languages	Python, Java, JavaScript, SQL, Rlang
Models & Frameworks	React, Next.js, REST API, Tailwind CSS
Software & Tools	Redis, Git, Node.js, Numpy, Panda, PowerBI, Latex

PROJECTS

ductran.net (github.com/englishlayup/ductran.net)
Personal blog built using the Next.js framework. The site uses static generation to fetch posts from my Redis Cloud database and render all pages at build time. This results in low first contentful paint and high search engine optimization.

Blunder Dodger Destroyer (github.com/englishlayup/blunder-dodger-destroyer)
Chess Engines written in Python using Alpha Beta Pruning and Monte Carlo algorithms.