

Hoai-Nam “Tony” Le

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EDUCATION

University of Virginia School of Engineering and Applied Sciences

Charlottesville, VA

Study: B.S. Computer Science, Engineering Business Minor

B.S. Expected May 2024

- **Relevant Coursework** Software Development Methods, Discrete Mathematics, Theory of Computation, Introduction to Financial Accounting, Program & Data Representation, Linear Algebra, Algorithms, Probability

EXTRACURRICULAR ACTIVITIES

SPIRIT OF FREEDOM MARCHING BAND

South Riding, VA

Head Drum Major, Technical Coordinator

June 2016 - Present

- Competed as an award-winning high-school band in local and regional competitions in Virginia and throughout the East Coast
- Created choreography and handled visual logistics (uniforms, props & show theme)
- Conducted for the band, facilitated information between band instructor, technical specialists, student leaders, and students throughout the Summer and Fall Season

COMPUTER SCIENCE HONOR SOCIETY

South Riding, VA

Co-Founder, Vice-President

October 2016- June 2020

- Organized monthly meeting for all members to handle logistics for tutoring, teaching, and service projects.
- Enacted as a student teacher in the AP or intro computer science courses, handling grading and running lectures.
- Organized non-profit, civic-minded, community open-source computer science projects to give back to the local community.

MU ALPHA THETA

South Riding, VA

Chapter President

April 2016 – June 2020

- Tutored students in a range of mathematics courses, mainly algebra through calculus.
- Worked with three other officers to arrange monthly meetings for the honor society.
- Served to spread mathematic literacy and passion for mathematics throughout Loudoun County.

UVa COMPUTER NETWORK SECURITY CLUB

Charlottesville, VA

Member

September 2020 – Present

- Attend weekly lectures to learn about various topics and current events in computer/cyber-security.
- Prepare various cloud-computing skills in order to engage in security competitions as a club.
- Develop security tools and challenges in order to keep the UVa cyber-space more sustainable.

UVa MACHINE LEARNING CLUB

Charlottesville, VA

Member

September 2020 - Present

- Attend monthly meetings to discuss new topics in the field of machine learning.
- Attend workshops that educate students on machine learning tactics and techniques.
- Work on various machine learning side projects with cohorts during separate meetings.

PROJECTS

PATHFINDING ALGORITHM INTERFACE

- Designed a Java GUI that demonstrates the A* pathfinding algorithm on a grid.

HANDWRITTEN DIGIT RECOGNITION WEB-APP

- Trained and utilized a CNN model to create a Streamlit Python web-app that takes in user drawn input to predict the digit.

HUFFMAN TREE ENCODER & DECODER

- Designed two C++ programs: One that can encode a text file into a Huffman tree, and one that can decode it.

PERSONAL WEBSITE

- Designed and programmed a personal website that serves as an online portfolio, made with HTML, CSS, and JavaScript

WORK EXPERIENCE

E-commerce Development and Retail Marketing

Remote

Sole Proprietor

2018-Present

- Responsible for inventory management and acquisition.
- Networked within popular culture communities to develop and implement marketing strategies.
- Managed bookkeeping and accounting from sales to inventory reconciliation.

SKILLS, LANGUAGES, & INTERESTS

Skills: Python, Java, JavaScript, C++, MATLAB, Microsoft Office, Finite Element Analysis, ArcGIS Engine, Eclipse IDE, Anaconda, SOLIDWORKS, Discord, GitHub, Data Structures, Algorithms, LLDB Debugger, JUnit Testing

Languages: English, Vietnamese, Spanish (intermediate proficiency)

Interests: Basketball, Fashion, Reselling, Stocks, Video Games, Renewable Energy, Artificial Intelligence, Machine Learning