

# Minh Nguyen

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## EDUCATION

### Cornell University

*Bachelor of Science, Master of Engineering*

*Major: Computer Science; Minor: Electrical and Computer Engineering*

**Ithaca, New York**

Expected May 2025

- **Honors & Awards:** Dean's Honor List
- **Relevant Coursework:** Intro to Machine Learning, Intro Analysis of Algorithms, Intro to Computer Vision, Data Structures & Functional Programming, Object Oriented Programming & Data Structures, Intro to Database Systems, Discrete Structures, Embedded Systems, Operating Systems, Robot Perception, Fast Robots, Linear Algebra for Engineers, Differential Equations for Engineers, Probability and Inference, Digital Logic & Computer Organization, Introduction to Circuits

## WORK & LEADERSHIP EXPERIENCE

### Cornell University

*Undergraduate Research Assistant*

**Ithaca, New York**

September 2023 – Present

- Conducted initial exploration into the effect of prompts in stable diffusion models to find functional correspondences between images
- Collaborated with Luming Tang to use Diffusion Features (DIFT) to extract features from images using stable diffusion

### KTBYTE

*Computer Science Instructor*

**Lexington, Massachusetts**

April 2022 – Present

- Taught classes of 4-8 students (ages 8-16) Computer Science concepts using block-based coding, the Processing IDE, and Jupyter Notebook. Aided students in end of course projects
- Developed core curriculum and problem sets for an introductory high-school level Java course
- Developed core curriculum for an introductory Machine Learning course. The course covers basic regression, classification, decision trees, and validation techniques

### Capital One TEIP Intern

*Software Engineer Intern*

**McLean, Virginia**

June 2023 – August 2023

- Collaborated with a team of 6 interns to develop frontend components for Capital One's virtual card to work with merchant provisioning features using the Angular framework which led to an integration of current and future merchant pages under a unified collection of components
- Attended daily trainings to learn about Git, React, Go, APIs, SQL, Swift, and AWS

### Cornell Mars Rover

*Electrical Sub-team Member*

**Ithaca, New York**

September 2022 – August 2023

- Collaborated with 40+ engineers to build a rover to compete in the University Rover Challenge
- Designed and soldered PCBs to control 2 general use servo motors
- Used C++ and the STM32 IDE to develop multi-use servo control with CAN communication

### Johns Hopkins University Applied Physics Lab

*High School Intern, Space Exploration Sector*

**Laurel, Maryland**

September 2020 – May 2021

- Worked directly under Dr. Edward Gaddy to analyze data from the Parker Solar Probe's solar arrays
- Created an improved prediction model that accurately normalizes the differences in the data caused by shadowing of the instruments, orbit position, and angle to the Sun

## SKILLS

**Languages:** Fluent in Vietnamese and English

### Technical Skills:

- Proficient in Git, Java, JavaScript, C++, Python, Swift, OCaml, Angular, React, CSS, and SQL
- Proficient in microelectronics
- Basic understanding of MatLab and Full-Stack Development
- Proficient in Autodesk Inventor and Autodesk Eagle