Minh-Thai Nguyen

📞 610-462-3696 | ✉ nguyen8@cooper.edu | ⌨ github.com/Minhtyyufa

Education

The Cooper Union for the Advancement of Science and Art *New York, NY*
Bachelor of Engineering in Electrical Engineering, Cumulative GPA: 3.8/4.0, Major GPA 4.0/4.0 *May 2021*

Experience

CUSAP *Remote*
Software Engineer *Jun. 2020 - Present*
- Co-developed Cusapp, an app currently on the Apple and Google Play store, that connects users to their homemade smart hydroponic systems using NodeJS, Express, MongoDB, and React Native.
- Co-wrote an open-sourced micro-controller library for Arduino called Mycelium8266.

Cooper Union Summer STEM *Remote*
Instructor *Jun. 2020 - Aug. 2020*
- Created and taught a curriculum on Smart Technology and Urban Agriculture.
- The course involved a variety of lectures ranging from hydroponic systems to data visualization in Python.
- The course lasted three weeks and had over 20 students.

II-VI Incorporated *Pine Brook, NJ*
Summer Intern *Jun. 2019 - Aug. 2019*
- Increased production efficiency by creating a program in Python that monitored machine downtime.
- Monitored the throughput and yield of production processes by creating a program in Python.

Create@Cooper *New York, NY*
Sponsorship Team Member *Jan. 2019 - Present*
- Brought in sponsorship, both in monetary value and through mentors, to support HackCooper, a completely student run hackathon

Projects

Machine Learning and Architecture (Python) *New York, NY*
The Cooper Union *Spring 2020*
- Collaborated with architects to create a fake deconstructivist paper.
- Text was generated using a word LSTM trained on thousands of deconstructivist papers.
- Images were then generated using a text to image model on the generated deconstructivist text.

Coopmo (Java, JS, ReactJS, Redux, RabbitMQ) *New York, NY*
The Cooper Union *Spring 2020*
- Created a Venmo clone Web App that implemented the basic functionality of Venmo.
- Used the Spring framework to create a RESTful application, connecting to a persistent MySQL database.
- The front-end was built out using ReactJS and used persistent Redux for local browser storage.

Plant Disease Classifier (Python) *New York, NY*
Cooper Union Sustainable Agriculture Project *Fall 2019*
- Built a deep neural network using TensorFlow that would detect and classify diseased plant leaves in the field.
- Experimented with various models including MobileNetV2 and YOLOv3.
- Curated a small dataset consisting of diseased plant leaves in various environments.

AMNH Hackathon (Python) *New York, NY*
American Museum of Natural History *Spring 2019*
- Worked with a group to write a program that would classify regions of compounds given readings from a particular instrument that is used in mineralogy.

Artificial Intelligence (C++) *New York, NY*
The Cooper Union *Fall 2018*
- Created an Othello AI in C++ using alpha-beta pruning and an iterative deepening search.

Other

Computer Proficiency: C, C++, Python, Java, JavaScript, HTML, CSS, Microsoft Office, LaTeX, ARMv8, AutoCAD, Solidworks
Languages: English and Spanish
Relevant Classes: Data Structures and Algorithms 1 & 2, Deep Learning, Software Engineering, Operating Systems, Artificial Intelligence