Thuy Pham

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EDUCATION

Cornell University, College of Engineering

Ithaca, NY

Expected May 2024

Bachelor of Science, Computer Science

• **GPA**: 4.18 / 4.3, Dean's List, Full-Ride Scholarship

• Coursework: Data structures and Algorithms (TA), Probability and Statistics (TA), Computer System (TA), Stochastics Process, Machine Learning (TA), Computer Network, Functional Programming

AWARDS

• First Prize - National ICPC Contest

• IOI Team Selection Test Qualifier

• 2-time USAMO Qualifier

• Codeforces Master - Top 3%

WORK EXPERIENCE

AmazonSoftware Engineer Intern

Sunnyvale, CA May 2023 - August 2023

• Enhanced regression testing by incorporating concurrency, reducing 90% triggering time per Test on Demand.

- Children to the state of AWG
- Conducted thorough validation of AWS account permissions, ensuring secure access across multiple accounts.
- Developed AWS Lambda backend to periodically backup 500,000+ daily production transactions, generate dynamic test plans, and upload them to S3 and DynamoDB, ensuring successful lambda triggering for data ingestion.

VinAl Research
Hanoi, Vietnam

Software Engineer Intern

June 2022 - September 2022

- Developed a Computer Vision labeling tool annotating 50+ unique objects consistently for each of 300,000+ images.
- Optimized per click annotation time by 91% after refactoring inefficient microservices and expanded the annotation usage from static 2D images to 3D cuboids by initiating the replacement of Keras with TensorFlowJS.
- Designed an API expanding single to multi-instance view per canvas, allowing concurrent annotation of multi-images.

The University of Texas at Austin, Oden Institute

Austin, TX

Research Assistant

May 2021 - September 2021

- Examined effectiveness of social distancing against COVID spreading rate between Stochastic / Deterministic models.
- Fine-tuned hyper-parameters of three ML algorithms reaching **optimal minimum Mean Square Error** of **0.32** when assessing ocean storms' seismic data against the existing dataset.

PROJECTS

Cornell Apartment Finder

Ithaca, NY

Open-Source Contributor

February 2021 - December 2021

- Re-designed the school's apartment review website **reaching 5000+ students** with Material UI and ReactJS.
- Ideated and implemented Fuse.js, Express.js optimizing search query and data retrieval response from 3s to 0.1s.

Cornell Study Space Finder

Ithaca, NY

Backend Developer, Team of 3

January 2021 - August 2021

- Developed an iOS app connecting 7 libraries and ~450 study spaces, helping 10000 students find a room real-time.
- Architected 5 relational databases connecting users, libraries, images, rooms, booking history and streamlined the image uploading process to instant time by self-designed API.

ADDITIONAL INFORMATION

Languages: C++, Python, Java, JavaScript

Framework and Technologies: Pandas, Numpy, Scikit-Learn, TensorFlow, Flask, React, NodeJS, Docker