

Nhi Pham

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EDUCATION

New York University | Abu Dhabi, UAE ([4% admit rate](#)) Sep 2018 - May 2022 (expected)
Bachelor of Science in Computer Science - Applied Mathematics Cumulative GPA: 3.98/4.0

Abroad Semesters: Nepal (J-term 2019), New York (Summer 2019), Shanghai (J-term 2020)

Programming: Java, C/C++, Python, Javascript, HTML, CSS, SQL, MATLAB

Certificate: D3.js Essential Training for Data Scientists ([certificate](#)), PyTorch Essential Training: Deep Learning ([certificate](#)), TensorFlow 2.0 Masterclass: Hands-On Deep Learning and AI (in progress, [course note](#))

RESEARCH EXPERIENCE

NYU Courant Summer Undergraduate Research Experience (remote 35 hours/week) New York, US
Research Intern, supervisor: Professor Esteban G. Tabak May 2020 - Present

- Work on latent factor discovery through optimal transports, specifically focused on Markov processes
- Generate synthesis data for methodology evaluation and design exploratory experiments in Python and MATLAB

Computational Analysis and Machine Learning Abu Dhabi, UAE
Research Intern, supervisors: Professor Carlos Guedes and Kaustuv Kanti Ganguli Feb 2020 - June 2020

- Performed musical feature extraction and worked on melodic similarity, which included modeling predominant melody via distributional and structural representations and associated distance measures
- Developed and implemented the computational analysis of non-western music collections, and conducted exploratory data analysis in Python by using dimensionality reduction and visualization with t-SNE

Undergraduate Student Independent Research Abu Dhabi, UAE
Supervisors: Professor Alberto Gandolfi, Professor Shakeel Kazmi Jan 2020 - May 2020

- Developed a system of a portable device that classifies the waste in real-time using convolutional neural networks. Find the code and the research paper [here](#)
- Research paper selected by the UAE Federal Competitiveness and Statistics Authority and granted Intellectual Property rights by the Ministry of Education
- Poster presentation at Grace Hopper Celebration 2020

NYU Tandon Undergraduate Summer Research Program New York, US
Research Intern, supervisor: Professor Eugene Callahan Jun 2019 - Aug 2019

- Refined and improved Indra Agent-based Modeling for environmental and financial market models in Python
- Analyzed and conducted automated unit testing in Python, which simulated the actions and interactions of autonomous agents to assess their effects on the system
- Increased testing coverage from 40% to 90% and developed Web front-end using React framework

VOLUNTEER EXPERIENCE

Technology Career Panelist | NYU Abu Dhabi Abu Dhabi, UAE
Gave insight into research, internship and scholarship opportunities and their application process Oct 2020

Unconscious Bias Team Leader | WeSTEM (Women empowered in STEM) Abu Dhabi, UAE
Raise awareness about unconscious bias in STEM through #IAmRemarkable campaigns, interview preparation workshops, and women in tech panels on campus Jan 2020 - Present

Event Coordinator | HackAD Abu Dhabi, UAE
Assisted in organizing events for students interested in Computer Science, including the annual Hackathon for approx. 50 participants Sep 2019 - May 2020

Treasurer | Math Club Abu Dhabi, UAE
Assisted in organizing trainings and selection tests for students interested in Math Jan 2019 - May 2019

OTHER EXPERIENCE

Unix Lab - NYU Abu Dhabi Virtual
Tutor Sep 2020 - Present

- Assist approx. 30 students/week on computer assignments and projects
- Maintain a virtual shared learning space for computer science and engineering students

Get Ahead 2020 - Google EMEA

Fellow

Virtual

Jun 2020 – August 2020

- Selected to attend the exclusive invite-only 8 week long Get Ahead program by Google for people who self identify as females, to develop their technical skills through a series of workshops and code challenges

JPMorgan Chase Software Engineering Virtual Experience

Participant

Virtual

Jun 2020

- Participated in an open access JPMorgan Chase virtual experience program, familiarized with JPMorgan Chase frameworks and applied technical skills to a hypothetical request from the firm's trading floor to analyze and visualize data
- Completed the following online modules: Interface with a stock price data feed, Use JPMorgan Chase frameworks and tools, and Display data visually for traders ([certificate](#))

Google Inside Look 2019

Attendee

Munich, Germany

Sep 2019

- Selected as one of only 31 students from thousands of applicants across EMEA to attend Google's fully-funded Inside Look 2019 program in Munich, Germany, participating in technical and developmental content and workshops

Onatech

Part-time Data Analyst Intern

New York, US

Jun 2019 – Jul 2019

- Applied different analytics models, including simple/exponential smoothing, Holt, Holt winters, ARIMA, and ARMA to forecast sales and quantity of food products
- Developed sales forecast models in Python and visualized the results using Matplotlib. Find the code [here](#)

PROJECTS

Underwater Experience - Alternate Realities | April 2020 - May 2020

Abu Dhabi, UAE

This alternate reality project is created with the hope to connect our daily life actions and their negative impact on the ocean, embracing the message of the inter-relation between human daily activities and nature. Find the documentation [here](#)

Weather Collectors | Nov 2018 – Oct 2019

Abu Dhabi, UAE

Constructed portable weather stations and a cloud-based tracking app in a team of 3 to update weather status in Ho Chi Minh City local areas, Vietnam

Health Data Visualization | Jan 2020

Abu Dhabi, UAE

Visualized healthcare related data using Javascript and D3.js version 4. Find out the project [here](#)

AWARDS & DISTINCTIONS

2020	International	AnitaB.org Grace Hopper Celebration Scholarship Recipient
2020	International	Tapia Conference - NSF Scholarship Recipient
2020	School	NYU Abu Dhabi Undergraduate Summer Research Funding Awardee
2020	School	NYU Courant Undergraduate Research Grant
2020	Gulf Region	NYU Abu Dhabi Official Team - Gulf Programming Competition 2020
2019	International	Platinum Prize (top 2/578 teams) HackHarvard Global Hackathon
2019	School	NYU Tandon Undergraduate Summer Research Funding Awardee
2018	School	NYU Abu Dhabi 4-year full-ride scholarship recipient
2018	Top 99/225	Al-Khwarizmi International Mathematics Olympiad for Undergraduate Students
2017	Regional	Third place in Vietnam Mathematics Contest for Gifted Students
2017	Top 10%	Le Hong Phong High School for the Gifted Merit 3-year Scholarship