

Marc Chiu

NYC, NY | Seattle, WA

✉ mchiu1402@gmail.com

☎ (+1) 206-458-0709

🌐 linkedin.com/in/marc-chiu

EDUCATION

New York University

Master of Science – Computer Science

GPA: 4.0

Expected Dec. 2024

New York University

Bachelor of Science – Computer Science

Minors – Mathematics & Business

GPA: 3.79 | Major GPA: 3.86

Sept. 2020 – May 2024

EXPERIENCE

Summer Research

New York University

May 2024 - Aug. 2024, New York, NY

- Collaborated with faculty and researched adversarially robust property preserving hash functions to develop new robust hashing for different vector distance metrics

Data Science Intern

DPlexBio

May 2023 - Aug. 2023, Seattle, WA

- Created and analyzed a CNN-LSTM architecture for semantic segmentation of biomedical droplets using Tensorflow and AWS
- Enhanced 3D droplet datasets by creating python scripts to simulate droplet formations and annotated data using napari, increasing accuracy by 20%

Backend Developer

Daimler Trucks

Jan. 2023 - May 2023, New York, NY

- Deployed SCRUM methodologies to design and construct a python codebase to replace the existing excel driveline computations by using ZOS APIs, GitHub, and IBM's DB2 Tables

Tutor & TA

New York University

Sept 2021 - Present, New York, NY

- Designed exams and lessons to tutor students in Data Structures, Algorithms, Object Oriented Programming, Linear Algebra, etc.
- Will serve as a TA for Prof. Chris Musco's Graduate Machine Learning Course for the Fall 2024 semester

PROJECTS

Julia Set Explorer

🔗 github.com/Marc-Chiu

New York, NY

- Developed an interactive Julia set explorer in Java using Swing, AWT and multithreading, enabling real-time zooming in a GUI.

Spotify Data Analysis

🔗 github.com/Marc-Chiu

New York, NY

- Utilized PCA to conduct data analysis on 52k Spotify songs to identify key features for regression models and classification trees, resulting in accurate predictions of song popularity and audio features

CERTIFICATES

- Using Python to Access Web Data
- Containerized Applications on AWS
- AWS Cloud Solutions Architect

TECHNICAL SKILLS

Programming Languages

Python, JavaScript, C++, Java, Bash, SQL

Advanced Python Skills

Cython, Numba, Numpy, Pandas, PyTorch, Scikit-learn, TensorFlow

Web Development

D3, Flask, HTML, Jekyll, Node.JS

Tools & Technologies

AWS Containers, Docker, Git, Tableau

GRADUATE COURSES

- Advanced Python for Data Science
- Algorithmic Machine Learning
- Big Data
- Deep Learning
- Graph Visualization Algorithms
- Information Visualization
- Java Programming
- Network Security

UNDERGRAD COURSES

- Artificial Intelligence
- Cryptography
- Database Design & Implementation
- Machine Learning
- Software Engineering
- Linear Algebra
- Multivariable Calculus
- Probability & Statistics

LANGUAGES

- English (Native)
- Italian (Advanced)

INTERESTS

- Information Visualization
- Machine Learning
- Cryptography