Marc Chiu

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EDUCATION

New York University   **December 2024**
Master of Science – Computer Science
GPA: 4.0

New York University   **May 2024**
Bachelor of Science – Computer Science
Minors – Mathematics & Business
GPA: 3.79 | Major GPA: 3.86

EXPERIENCE

Software Engineer Intern
Daimler Trucks   *Jan. 2023 - May 2023*

- Using SCRUM methodologies implemented RESTful APIs to calculate truck stress metrics, integrating GitHub Actions for testing and deployment — increasing efficiency by 40%

Data Science Intern
DPlexBio   *May 2023 - Aug. 2023*

- Developed and tested a CNN-LSTM architecture for semantic segmentation of biomedical droplets using Tensorflow and AWS EC2
- Managed a 3D droplet data pipeline with python simulation, annotation, and pre-processing scripts —— increasing model accuracy by 20% and contributed to generating ~$1M in NIH grant funding

Summer Research
New York University   *May 2024 - Aug. 2024*

- Collaborated with cryptography faculty researchers to develop a novel robust property preserving hash function for Jaccard Similarity

Tutor & TA
New York University   *Sept 2021 - Dec. 2024*

- Designed exams and lessons to tutor students in Data Structures, Algorithms, Object Oriented Programming, Linear Algebra, etc.
- Teaching Assistant for NYU's Graduate Machine Learning course and Undergraduate Algorithms course for 200 students

PROJECTS

Image Background Remover
⌨ *github.com/Marc-Chiu*

- Built a containerized background-removal service based on U2Net using Python deployed to Google Cloud Run via Artifact Registry

Premier League Dashboard
⌨ *marc-chiu2.observablehq.cloud*

- Developed a Dockerized, real-time Prem dashboard with React and D3 for 500+ monthly users, enabling interactive visualizations.
- Built a serverless data pipeline using AWS Lambda, API Gateway, and S3, automating stat ingestion and integrated CI/CD.

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, React

Tools & Technologies
Spark, Dask, Git, Docker, AWS, Redis

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