

Neil Yeung

Data Engineer with ML & software engineering expertise, interested in scaling & shipping data-driven products & systems.
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EDUCATION

University of Rochester

B.S. Computer Science, Minor in Mathematics | **GPA: 3.7**

Rochester, NY

Expected May 2023

SKILLS AND RELEVANT COURSEWORK

- **Programming Languages:** Python, Scala, R, SQL, Java, C/C++, Javascript, Go, Kotlin, Assembly
- **Tools & Technologies:** Spark, AWS, Docker, Databricks, MLFlow, PyTorch, TensorFlow, Pandas, GraphQL, Git
- **Coursework:** Computer Vision, Data Mining, Data Structures & Algorithms II, Honors Linear Algebra, Statistics

EXPERIENCE

Angelo Gordon

Data Engineering Intern

May 2022 – Aug 2022

New York City, NY

- Built a distributed big data tool that processes 1 billion+ data points for hedge fund with 50 B AUM, shipped tool to production, and presented tool to CTO and other executives.
- Improved data pipeline for tool using multi-dimensional clustering and bin-packing, reducing query latency by 80%.

Intel

Machine Learning Engineering Intern

May 2021 – Dec 2021

Santa Clara, CA

- Developed a Vision Transformer model for segmentation, resulting in a filed patent.
- Created a containerized data pipeline for segmentation and object detection that ingests 1 million+ images.

Intel

Software Engineering Intern

June 2020 – Oct 2020

Folsom, CA

- Developed 5 novel statistics to measure performance for graphics performance simulator API.
- Created cloud-based dashboard to measure performance changes, using Elasticsearch and GraphQL to query simulator API, viewed 50+ times monthly.

VISTA Lab

Machine Learning Researcher under Prof. Jiebo Luo

Jan 2020 – Nov 2021

Rochester, NY

- Proposed generative Variational Autoencoder (VAE) video prediction model for medical images, collaborated with Amazon researcher, resulting in a [co-first author paper accepted to BME Frontiers 2022](#).
- Conducted data mining research on time-series Twitter data, resulting in a [first author paper](#) accepted to 2020 *IEEE Big Data* (17% accept rate) conference and an interview on a popular [data science podcast, Data Skeptic](#).

CIeNet Technologies

Software Engineering Intern

Summer 2016, 2017

Santa Clara, CA

- Developed white noise model to augment car speech recognition engine, accuracy increased by 50%.
- Developed Android music player app for infotainment system and shipped app to a major American car company.

PAPERS & PATENT

- Co-author of filed computer vision segmentation patent application: “Tools and Methods for Dual Attention Vision Transformers for Interactive Image”.
- First co-author computer vision video prediction paper in journal *BME Frontiers 2022*: “Breast Cancer Induced Bone Osteolysis Prediction Using Temporal Variational Auto-Encoders”.
- First author data mining paper in *IEEE Big Data 2020*: “Face Off: Polarized Public Opinions on Personal Face Mask Usage during the COVID-19 Pandemic”.

ACTIVITIES & AWARDS

- **Academic:** Rush Rhees Scholarship (50% tuition), National Merit Scholar, Research & Innovation Grant (\$4000)
- **Competitive Programming:** Passed North American Qualifiers [ICPC 2021](#), Top 30 in ICPC Northeast Regionals
- **Other:** [Amino Capital Fellowship](#), Won 3rd in [Forbes Entrepreneurial Competition](#), Accepted to [HackMIT 2022](#)