

Michael Paglia

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EDUCATION

Georgia Institute of Technology

Master of Science in Computer Science, Specialization in Machine Learning

Atlanta, GA

Anticipated May 2026

University at Albany

Bachelor of Science in Computer Science

Albany, NY

May 2024

- Graduated *summa cum laude* (GPA: 3.84/4.0)
- Member of Phi Beta Kappa

EXPERIENCE

Data Labeling Analyst II (Generative AI)

May 2024 – Present

Meta

Remote

- On assignment via Magnit, conducted over 1K+ quality assurance tests weekly on code generated by Llama 3
- Collaborated with project managers to improve vendor performance to yield a 15% increase in labeling accuracy

Founder and CEO

Nov. 2020 – Present

M.P. Mercantile, LLC

Troy, NY

- Founded a start-up e-commerce business hosted on 3 major online marketplaces with 1K+ unique customers
- Achieved over six figures annually in gross sales revenue and 25% growth year-over-year

National Science Foundation Research Fellow

Jan. 2024 – May 2024

The Research Foundation for SUNY

Albany, NY

- Supervised under the guidance of Dr. Petko Bogdanov in the Data Management and Mining Lab
- Implemented and tested 10+ machine learning algorithms for temporal graph and multi-dictionary signal decomposition, achieving a fit of over 98% to datasets with 20M+ points for data reconstruction
- Integrated custom graph and time-series dictionary generation to reduce data retrieval time by nearly 90%

STEM Tutor

June 2022 – May 2024

Paper

Remote

- Coached over 500 students per month on mathematics and computer science using question-based teaching method
- Offered bilingual (English and Spanish) support while working with up to 4 students concurrently

Mid-Scale Manufacturing Intern

May 2023 – Aug. 2023

Regeneron Pharmaceuticals, Inc.

Rensselaer, NY

- Developed and deployed a CRUD application and REST API used by IT team members, improving operational efficiency and saving 2 hours of manual effort each week
- Provided smart contract-based access management using Python, Flask, JavaScript, and Dremio Data Lake, achieving a 20% improvement in secure data access verification times across an organization of 4K+ employees

PROJECTS

PySpady | *Python, NumPy, TensorLy, Git* | <https://bit.ly/pyspady>

Sep. 2023 – May 2024

- Features data compression, missing value imputation, future value prediction, and autocompletion
- Machine learning determines the best combination of dictionaries, models, and optimizers for a given dataset

Operating System Simulator | *Java, Git* | <https://bit.ly/os-simulator>

Sep. 2023 – Nov. 2023

- Designed for training typical operating system capabilities without requiring a VM
- Features priority scheduling, processes, messages, paging, and virtual memory using the local JVM

Custom Language Interpreter | *Java, Git* | <https://bit.ly/custom-interpret>

Aug. 2022 – Nov. 2022

- Defines a functional programming language with pseudocode-like syntax to introduce people to coding
- Capable of lexical analysis, parsing, and semantic analysis into an interpreted output

TECHNICAL SKILLS

Languages: Java, Python, C/C++, SQL (Postgres), JavaScript, Matlab, HTML/CSS, MIPS

Frameworks: Node.js, Flask, JUnit, WordPress

Developer Tools: Git, Docker, Dremio, Google Cloud Platform, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse

Libraries: pandas, NumPy, TensorLy, Matplotlib