

Michael Paglia

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EDUCATION

University at Albany

Master of Science in Computer Science

Albany, NY

Anticipated May 2025

University at Albany

Bachelor of Science in Computer Science

Albany, NY

May 2024

- GPA: 3.82/4.0
- Member of Phi Beta Kappa

EXPERIENCE

Data Labeling Analyst II

Meta

May 2024 – Present

Remote

- On assignment via Magnit, collaborated with vendors to improve labeling accuracy by 15% as a subject expert.
- Supported cross-functional teams, drove workflow optimizations, and increased efficiency by 20%

Founder and CEO

M.P. Mercantile, LLC

Nov. 2020 – Present

Troy, NY

- Founded a start-up e-commerce business hosted on 3 major online marketplaces with 1,000+ unique customers
- Achieved over six figures annually in gross sales revenue and 25% growth year-over-year

National Science Foundation Research Fellow

The Research Foundation for SUNY

Jan. 2024 – May 2024

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 20 million+ points for data reconstruction
- Integrated custom graph and time-series dictionary generation to reduce data retrieval time by nearly 90%

STEM Tutor

Paper

June 2022 – May 2024

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

Regeneron Pharmaceuticals, Inc.

May 2023 – Aug. 2023

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 4000+ 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