Michael J. Paglia
linkedin.com/in/michaeljpaglia/ | https://www.michaelpaglia.dev
Troy, NY, 12180 | 518-852-7364 | michaelpagliadev@gmail.com

EXPERIENCE

Student Researcher — Data Management and Mining Lab *Sep. 2023-Present*

- Implements algorithms for temporal graph signal and multi-dictionary tensor decompositions
- Integrates graph and time-series dictionary generation with low-rank, rank norm, and non-low-rank models and coding optimizers for ADMM, gradient-based, OMP-greedy, and Kronecker

STEM Tutor — PAPER Tutors *Jun. 2022-Present*

- Coaches students on mathematics and computer science using question-based teaching method
- Offers bilingual (English and Spanish) support while working with multiple students concurrently

Founder & CEO — M.P. Mercantile, L.L.C. *Nov. 2020-Present*

- Founded a start-up e-commerce business hosted on major online marketplaces
- Achieves over six figures annually in gross sales revenue

Intern — Regeneron Pharmaceuticals, Inc. *May-Aug. 2023*

- Collaborated with IT department to implement a CRUD application interface and REST API
- Provided smart contract-based access using Python, Flask, JavaScript, and Dremio Data Lake and automated internally written regulatory report data through Microsoft Powersuite

EDUCATION

University at Albany, SUNY

Master of Science in Computer Science *Anticipated May 2025*
Bachelor of Science in Computer Science *Anticipated May 2024*

- GPA: 3.85
- Societies: Phi Beta Kappa, The Honors College, National Society of Collegiate Scholars

PROJECTS

PySpady https://github.com/petkobogdanov/pyspady *Sep. 2023-Present*

- Python library leveraging state-of-the-art and sparse encoding algorithms to analyze spatial temporal data; features data compression, missing value imputation, future value prediction, and more

Operating System Simulator https://github.com/michaelpaglia/os-sim *Sep.-Nov. 2023*

- Simulates an operating system with priority scheduling, processes, messages, paging, and virtual memory using the local JVM

Interpreter https://github.com/michaelpaglia/interpreter-src *Aug.-Nov. 2022*

- Uses Java with capabilities of lexically analyzing tokens from a .txt file, parsing tokens into nodes, semantically analyzing and interpreting nodes into output