ADAM FARIDI

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EDUCATION

Cornell University **GPA: 3.41/4.0**
Double Major: BS in Computer Science & Operations Research Engineering *May 2025*

Relevant Coursework: Algorithms, Data Structures, Machine/Deep Learning, Object-Oriented Programming in Java, Optimization

Organizations: Cornell Cheerleading Team, Seismic Design Project Team, Intramural Soccer, ORIE Research

PROFESSIONAL EXPERIENCE

Mastercard **St. Louis, MO**
Data Engineer Intern *June 2024 - August 2024*
- Built and maintained data integration pipelines by leveraging Snowflake warehousing, HTTP requests to REST APIs, and Python/SQL to power **140+** dashboards and streamline data accessibility throughout BizOps.
- Developed a Topic LDA ML Model that revealed key trends in **67,000+** natural language IT tickets to leadership.
- Reimplemented, tested, and **deployed to production** a data pipeline using that piped data daily from back-end databases to a dataset of **19+** million records, reducing the pipeline's runtime from **~1 hour** to **~5 minutes**.

Paramount **New York, NY**
Research Intern for CBS News *June 2023 - August 2023*
- Implemented a predictive model in Python, providing finance with viewership forecasts for multiple CBS News programs.
- Migrated **millions** of records of data from disorganized Excel spreadsheets to a uniform SQL database, effectively redesigning the data architecture of CBS News's research department and facilitating automated report-writing.
- Provided **50** daily and **10** weekly analytics reports to stakeholders, analyzing trends in performance & market share.

Labor Dynamics Institute at Cornell **Ithaca, NY**
Research Assistant *January 2023 - May 2025*
- Streamlined cloud workflows via Git & Jira, linking R, C, Stata & Python code between VMs and Docker containers.
- Facilitated the publication of **> 25** papers to the American Economic Review by managing & executing high-performance computing workflows ranging from regressions to multi-week ML model training or economic simulations.

PROJECTS & OUTSIDE EXPERIENCE

Fine-Tuning Text-To-Image Diffusion | *Python, AWS, MLFlow, TensorFlow, HuggingFace, BeautifulSoup*
- Reimplemented the DreamBooth diffusion research paper to personalize text-to-image models, achieving similar results.
- Built an EC2 instance on AWS to train & fine-tune the model, leveraging S3 for data storage to support data augmentation.
- Presented our research poster as a team to **150+** students as part of a final project for CS 4782 – Deep Learning.

SimOpt Independent Research | *CI/CD, Python, PyTorch, SciPy, NumPy, Optimization Algorithms*
- Conducted advised research on the convexity of multiple non-linear simulation optimization problems.
- Contributed to the open-source Python package *SimOpt* by developing code to test and analyze optimization solver behavior, uncovering an issue with a solver used in prior literature, and reviewing mathematical proofs.

LEADERSHIP & ACTIVITIES

INFO 3950 – Data Analytics for Information Science **Ithaca, NY**
Teaching Assistant *January 2025 – May 2025*
- Mentored **30** students in data science and ML programming, holding weekly office hours, 1-on-1 tutoring, and grading.

Blueprint Minecraft **Remote**
Community Founder & Game Developer *December 2017 – Present*
- Employed Java skills to develop educational games, including a virtual climate change **museum exhibit** in Venice, Italy.
- Presented at **5** Microsoft Edu events nationwide, each with ~**15,000** attendees, teaching youth audiences STEM concepts.
- Founded an online community of **2000+** members and **1 million+ views** across all social media platforms.

Cornell Seismic Design **Ithaca, NY**
Team Lead *May 2024 – May 2025*
- Led the construction of a 5-foot wooden tower, placing **2ⁿᵈ**/38 in April 2025 at an annual global seismic competition.

SKILLS & INTERESTS

Programming Languages: Python, Java, C/C++, R, OCaml, SQL, HTML

Data Tools: Alteryx, Airflow, PostgreSQL, MySQL, Snowflake, Hadoop, NumPy, Pandas, TensorFlow, PyTorch
Developer Tools: Docker, AWS, Git, Linux, UNIX, CI/CD, IDE, Shell Scripts, Google Cloud, MLflow
Hobbies: Architecture, Guitar, Geography, FC Barcelona, Language Learning, Jazz and R&B Music