

# Jacob Swe

New York, NY • jacobwswe@gmail.com • jacobsw.com • linkedin.com/in/jacobwswe/ • (941) 350-7670

## Education

### New York University – Leonard Stern School of Business

New York, NY

Bachelor of Science – Statistics, Computing & Data Science. 3.8/4.0

May 2019

Honors: Cum Laude, University Honors Scholar, Dean's List, D3 Diving Team Member

## Experience

### Polen Capital

New York, NY

#### AI Architect & Lead Data Scientist

Oct 2023 – Present

- Implemented custom front end for firmwide LLM inference, gathering >150 users (75%) and 60M tokens monthly
- Oversee all GenAI infrastructure and inference as well as all classical training and deployment on Kubernetes
- Developed agentic workflows including multi-tool and multi-agent frameworks for complex analysis and Q&A
- Write and deliver onboarding and training on AI to more than 200 attendees with high conversion to active user

#### Senior Data Scientist

Dec 2021 – Oct 2023

- Lead the development of quantitative research Python package with 5 developers still used by all PM teams
- Stood up complex performance and risk platform with automated deployment from 3k+ monthly reports
- Orchestrated ongoing optimizations of investment idea generation frameworks using differential evolution

#### Data Scientist

Jul 2021 – Dec 2021

- Established a new data science practice, including architecture, training, deployment, and inference on Azure
- Worked with Portfolio Manager and Distribution teams to create and present 3+ client facing analyses
- Responsible for ongoing portfolio monitoring and PM idea analysis covering 8+ strategies across the firm

#### Data Analyst

Aug 2019 – July 2021

- Conducted >20 complex research projects based on client inquiries and research team hypotheses
- Supported ongoing portfolio analysis through onboarding to performance and risk monitoring practices

#### Summer Associate

Jun 2018 – Aug 2018

- Developed proof-of-concept attribution reporting system with end-to-end ETL, Data Engineering, and dashboards

### Ascent Conference

New York, NY

#### Intern

May 2017 – Apr 2019

- Supported venture capital investing conference with general analytics, sales development, and research
- Generated and automated pitch deck creation for 90+ companies before each conference

### NYU Stern - Management & Organizations

City, State

#### Research Assistant

Feb 2016 – Apr 2017

- Systemically reviewed academic literature of similar studies of insider trading on FDA drug decisions
- Recreated old study of long-term funding trends in government creating previously unknown insights

## Volunteering

### NYU Business Analytics Club

City, State

#### Mentor and Advisor

Aug 2019 – Present

- Offer professional mentorship to a class of freshman students each semester on career and academic direction
- Occasionally offer technical advice to teams of students conducting data science projects for startups

## Skills & Interests

**Generative AI:** OpenAI, Anthropic, Langchain, Dash

**Language:** Python, Pytest, SQL (Snowflake)

**Data Science:** AzureML, SKLearn, PyTorch, BERTopic

**Computing:** Kubernetes, Docker, Jupyter, VSCode

**Azure:** Azure Functions, Logic Apps, DevOps, Artifacts, Webapps, AI Studio, Azure Pipelines, VMs

**Data:** Pandas, Numpy, Snowflake, SQLAlchemy

**Visualization:** Seaborn, Matplotlib, Plotly, Manim