Sam Taubman

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EDUCATION

Georgia Institute of Technology　　　　　　　　　　　　　　　　Expected Aug 2026
M.S. in Computer Science - Specializing in Computing Systems - GPA: 4.0　　　　　*Atlanta, GA*

Appalachian State University　　　　　　　　　　　　　　　　　　　May 2022
B.S. in Chemistry - Honors Student, Chancellor's Scholar, Dean's List　　　　　　*Boone, NC*

EXPERIENCE

Data Engineer　　　　　　　　　　　　　　　　　　　　　Aug 2024 – Present
Geneva Trading　　　　　　　　　　　　　　　　　　　　　　*Chicago, IL*
- Created firm performance dashboards using **Qlik Sense** and **SQL**, enabling data-driven decision-making for firm partners and department heads
- Developed an automated exchange reconciliation job for JPX with **Python**, **SQL**, **KDB**, **Docker** and **Nomad** saving 30 minutes of manual work per day
- Built a website that integrates with **NetSuite** and gives the accounting team control over **SQL** databases using **Python** - **Flask** and **JavaScript** - **Vue.js**
- Automated the Mixed Straddle tax report using **Qlik Sense** and **SQL** saving one week of manual work per year

Data Engineer Intern　　　　　　　　　　　　　　　　　　June 2024 – Aug 2024
Geneva Trading　　　　　　　　　　　　　　　　　　　　　　*Chicago, IL*
- Built a website that simplifies **SQL** database management and gives Researchers and Traders access to **MongoDB** stored market data definitions using **Python** - **Flask** and **JavaScript** - **Vue.js**
- Wrote an abstract and scalable **Q** library in **C++** that translates between **KDB**, **ClickHouse** and other databases giving Researchers and Traders access to more data

Research Assistant　　　　　　　　　　　　　　　　　　　　May 2024 – Dec 2024
PI: Dr. Ashok Goel, Design Intelligence Lab at Georgia Institute of Technology　　　*Chicago, IL*
- Implemented, trained and tested **GPT-3.5-turbo**, **GPT-4o mini** and **BERT** with Bagging SVM and MLP models to predict personality based on the Big Five personality traits for better student matching in online courses

Data Engineer Intern　　　　　　　　　　　　　　　　　　　May 2023 – Aug 2023
Keena Healthcare Technology　　　　　　　　　　　　　　　　　　*Chicago, IL*
- Automated the creation of monthly insurance reports using **SQL**, resulting in a reduction of 10 hours of manual work per month
- Created a real-time **SQL Server Agent** dashboard to keep clients informed about the progress of ongoing tasks

Data Analyst　　　　　　　　　　　　　　　　　　　　　　Aug 2022 – May 2023
Eurofins PSS at Biogen　　　　　　　　　　　　　　　　　　　　*Durham, NC*
- Recognized with the **Impact Award** for going above and beyond the typical duties to assist clients
- Developed a PDF data scraping tool using **Streamlit** and **Pandas** to automate data entry for protein concentration testing, reducing analysis time from 30 minutes to 5 minutes
- Streamlined sample data querying by implementing a **SQL** dashboard in **LIMS** (Lab Management Software)

Product Engineer Intern　　　　　　　　　　　　　　　　　　Mar 2022 – Aug 2022
Pneuma Respiratory　　　　　　　　　　　　　　　　　　　　　*Boone, NC*
- Increased vapor dispensing devices battery life by 2 hours by optimizing the battery's electrical waveform
- Improved consistency of vapor dispensed by Pneuma's Product by testing and adjusting settings in **C++**

SKILLS

Backend: Python, Flask, C++, Java
Frontend: JavaScript, Vue.js, Quasar, HTML, CSS, Tkinter
Databases/Machine Learning: SQL Server, MongoDB, ClickHouse, KDB, Q, NumPy, pandas, Matplotlib, scikit-learn
Tools: Git, GitHub, Bitbucket, Linux, Docker, Nomad, Qlik Sense, Microsoft Suite

PROJECTS

**Ravens Agent: AI Computer Vision | https://github.com/SamTaubman/AI_Agent_Computer_Vision |
Python, OpenCV, Pillow, NumPy**
- Developed an AI Agent with **Python** capable of solving Raven's Progressive Matrices IQ Test with 85% accuracy