Ishan Sheth

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Education

Georgia Institute of Technology **December 2025**

B.S. in Computer Science with Minor in Economics *GPA: 3.90/4.0*

- Concentrations: Artificial Intelligence and Systems & Architectures
- Coursework: Algorithms/Data Structures, Machine Learning, Computer Organization, Object Oriented Programming, Linear Algebra, Multivariable Calculus, Discrete Mathematics

Experience

Georgia Tech Student Foundation Investments Committee **Atlanta, GA**

Quantitative Analyst *April 2023-Present*

- Develop and execute quantitative investment strategies utilizing machine learning, contributing to the growth and management of $2.1M AUM student-run endowment fund
- Leverage Bloomberg Terminal, Excel, and Python to research and build portfolio management algorithm to distribute and reallocate capital to various quantitative investment strategies based on current macroeconomic conditions
- Participated in a rigorous semester-long mentorship program learning DCF modeling, accounting, portfolio theory, macroeconomics, valuation techniques, fixed income, and stock pitch creation

Splitit **Atlanta, GA**

Data Science Intern *June 2022-August 2022*

- Created production-ready tool using Python, Postman API, and requests to analyze the needs of over 200 e-commerce companies, resulting in the identification of 10 potential clients
- Developed machine learning model using Scikit Learn, SQL, Snowflake, and Salesforce to predict client acquisition with 85% accuracy, leading to improvements in the sales team's email communication and lead targeting
- Revamped sales data collection process by introducing automation through Git and Jenkins, resulting in the consolidation and reorganization of all their data in a centralized repository

MiRUS LLC **Marietta, GA**

Software Intern *June 2019-July 2020*

- Developed Python program using VTK and 3D Slicer libraries to analyze MRI data and efficiently render vertebrae images in 3D
- Code implemented into MiRus' surgical robotics system, enhancing functionality while allowing surgeons globally to quickly and accurately visualize and diagnose spinal conditions
- Developed Python program using Pytesseract and OpenCV libraries and minimum bounding box algorithms to automatically read pharmaceutical labels for automated drug delivery robot prototype

Research

Georgia Tech Center for the Study of Systems Biology **Atlanta, GA**

Undergraduate Researcher *December 2022 – May 2023*

- Researched genetic mutations and protein pathways in individuals with autoimmune disorders, including Eosinophilic Esophagitis, to identify potential targets within the immune response pathway for drug development
- Analyzed and interpreted patient data from RNA sequencing to gain a deeper understanding of the underlying mechanisms contributing to Eosinophilic Esophagitis
- Researched repurposed drug options such as monoclonal antibodies and molecules alpha-L-fucose and beta-D-glucose for further animal testing, opening new doors for repurposed drugs in autoimmune allergy disorders

MiRUS LLC **Marietta, GA**

Researcher *November 2020-July 2021*

- Co-authored *Characterization of Ion Release from a Novel Biomaterial, Molybdenum-47.5Rhenium, in Physiologic Environments* published in *The Spine Journal*
- Evaluated the strength, hydrophilicity, and bacterial growth of proprietary MoRe alloy for spinal implants and compared to industry standards, demonstrating its superiority to traditional surgical implant materials

Projects

FraudGenie *October 2023*

- Developed real-time credit-card fraud detection dashboard for small businesses, enabling real-time data analytics and visualization, driving data-driven decision-making and improving their control over financial security
- Built a high-performing machine learning model employing XGBoost to generate fraud risk scores for a given transaction, achieving an F1 score of over 98% on unseen test data
- Analyzed and preprocessed imbalanced dataset of 1.3 million transactions utilizing Pandas, Numpy, imblearn-Undersampling
- Built a user-friendly interface for web application, using React, JavaScript, and Flask to offer real-time predictions and actionable insights based on merchant risk tolerance

Additional Information

Languages: Python, Java, JavaScript, HTML, CSS
Data: SQL, Tableau, Tensorflow, Scikit Learn, Snowflake, XGBoost, Excel
Tools: Git, Jenkins
Certifications: Bloomberg Market Concepts