

SEAN DAVIS

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EDUCATION

Master of Science in Computer Science, Georgia Institute of Technology May 2025

Relevant Courses ML for Trading, Optimization, Simulation, Intro to Research

Bachelor of Science in Computer Science, Western Governors University December 2022

Relevant Courses, Data Structures & Algorithms, Advanced Java Concepts, Data Science

EXPERIENCE

Analytics Strats June 2024 - Present

Goldman Sachs *New York, NY*

- Developed visualizations for portfolio attribution on an investment dashboard, enabling clients and investment managers to assess and optimize risk-return contributions of multiple factors across their portfolios.
- Collaborated on a research initiative, performing in-depth analysis and visualization of a dynamic asset allocation strategy, providing actionable insights for analysts and portfolio managers.

Software Engineer Intern June 2023 - August 2023

Goldman Sachs *New York, NY*

- Enhanced portfolio management workflow by designing a MongoDB schema for investment portfolios and implementing state machines to enable seamless state transitions throughout the portfolio's life cycle.
- Streamlined portfolio managers' workflow by integrating two backend systems. Developed endpoints and event handlers in Java and Nest.js with TypeScript to facilitate efficient communication between systems.
- Increased performance by approximately 30% for high-load request-handling components through the utilization of Vert.x, an asynchronous Java toolkit, and the implementation of reactive and event-driven programming.

Software Engineer Co-Op January 2023 - June 2023

State Street *Remote*

- Developed Terraform and PowerShell scripts to automate the provisioning and configuration of Azure VMs, specifically designed for facilitating backward compatibility testing across 5+ teams.
- Implemented a Jenkins pipeline that utilized the provisioned VMs for automated testing of plugins. Successfully reduced testing time for a client plugin by 80% through the implementation of PowerShell automation.
- Built a Django REST API that provides a streamlined process for creating cloud infrastructure.

PROJECTS

Factor Importance In Changing Market Regimes Python, NumPy, Pandas, Sk-Learn, SciPy

- Analyzed factor performance during several market regimes which was classified using a Hidden Markov Model.
- Integrated a Random Forest model with Lasso Regression to capture non-linear interaction effects between equity returns and risk factors, enhancing insights into the predictive power of these factors.

SKILLS

Languages Java, Python, SQL, TypeScript, PowerShell

Frameworks Spring Boot, React, Numpy, Pandas, NodeJs, NestJs, Vert.x

Tools Git, MySQL, PostgreSQL, MongoDB, Linux, Jenkins

Certifications CodePath Advanced Software Engineering, CompTIA Project+, ITIL 4 Foundations