

Suryaa Rajinikanth

Boston, MA | [LinkedIn](#) | [Website](#) | srajinik@terpmail.umd.edu

EDUCATION

University of Maryland - College Park

Computer Science and Mathematics

College Park, MD

December 2024

- Relevant Courses: MATH498T, MATH240, CMSC216, CSMC250, CMSC132

WORK EXPERIENCE

Fidelity Investments

Merrimack, NH

Full Stack Engineer Intern - (Distributed Compute)

May 2023 - Aug 2023

- Developed an Angular based front-end for the Click2Compute Service, enabling customers to perform operations 20% faster than prior.
- Developed a suite of APIs in Go to interact with the frontend. Implemented these as images using Docker-Compose for deployment.
- Created playbooks using Ansible and Python3 to automate deployment tasks.

TensorDock

Boxborough, MA

Marketplace Product Manager - (Marketplace)

March 2022 - Present

- Utilized Openstack Nova / Open vSwitch, enabling PCI pass through and secure VM accessibility
- Created Python software for infrastructure setup/automation on host machines and used Rundeck to communicate with PostgreSQL database. Reduced onboarding time by ~95% and cut costs 10x.
- Added deployment features to the platform using SLURM, Kubernetes, Docker, and HTML/JS.
- Helped grow the company in monthly revenue by 100x over 6 months (7-figure valuation ~2023).

Smith Investment Fund

College Park, MD

Quantitative Analyst

September 2022 - Present

- Selected as 1/10 freshmen of 100+ applicants for student led investment group at UMD.
- Studied and implemented models such as pairs trading and Fama-French to long/short given stocks appropriately in Alphas.
- Working on the infrastructure team to develop a Python high-frequency backtester allowing ~1000x more precision in trades on minute data.
- Used Pandas, TensorFlow, NumPy, and Matplotlib to find trends, allowing profit to reach >300%

University of Maryland

College Park, MD

Undergraduate Web3 Researcher

March 2023 - May 2023

- Designed smart contracts in Solidity under Prof. GP Saggese, contributing to the DeFi platform
- Made a comprehensive deployment notebook for DaoSwap by creating a mock ERC20 token on the Goerli network and deploying a factory/deploy swap contract for the token.

Boston University

Boston, MA

Full Stack Engineer Intern

April 2022 - September 2022

- Developed a multi-platform app using Flutter, resulting in a 60% reduction in development time.
- Stored users and incidents in Firebase Cloud Firestore and developed authentication with Google to increase credibility and reduce user registration times.

Projects

GoBackTester

- Developed an Alpha back-tester using Golang and historical forex data, profiting 3.4x in 2 days.
- Leveraged Goroutines to test trading strategies on millisecond data (millions of data points / day).

GoTransShipment

- Created a TransShipment solver in Go for MATH498T that outperformed manual solving by >50x
- Leveraged the NorthWest Rule and Stepping Stone method to find the optimal feasible solution.

JOS Alpha

- Helped produce a pairs-trading Alpha for SIF Freshman Alpha Competition that profited >6%
- Used web-scraping and an RNN to analyze daily sentiments of articles to long/short stocks.

SKILLS

Languages/Frameworks: Java, Python, C, Go, Dart, Ansible, Solidity, SQL, Angular, HTML/CSS/JS

Software: Openstack, SLURM, Flutter, Firebase, Postgres, Kubernetes, Docker, TensorFlow, Rundeck