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EDUCATION

Aug 2022 — Dec 2024 **B.S. Computer Science, The University of Maryland, College Park** College Park, MD
Relevant Coursework: MATH240, MATH498T, CMSC216, CMSC250

EXPERIENCE

May 2023 — Aug 2023 **Incoming Software Engineering Intern, Fidelity Investments** Boston, MA

- Tentatively accepted offer for Summer 2023 under the full-stack engineering team
- Will be utilizing technologies like **AngularJS**, **Java Spring**, **Go**, etc. to create applications and manage investments

Apr 2022 — Present **Marketplace Product Manager, TensorDock** Boston, MA

- Pioneered the development of TensorDock Marketplace
 - Product connecting independent hosts around the world with clients, slashing industry prices 10x
- Utilized **Openstack Nova** and **Open vSwitch**, enabling PCI pass through and secure accessibility over the internet for VMs on host servers
- Created AIO **Python** software for hosts to install dependencies, handle port forwarding, update software, manage VMs, and communicate with main database through **Rundeck**
- Added deployment features to growing cloud GPU platform using **SLURM**, **Kubernetes**, **Docker**, **PostgreSQL**, **Python**, and **JS**
- Helped grow company in monthly revenue by 100x over 6 months (7-figure valuation ~2022)

Sep 2022 — Present **Quantitative Analyst, Smith Investment Fund** College Park, MD

- Competitively selected as 1/10 freshmen of 90+ applicants for student led investment group at UMD
- Developed JOS Alpha using **pairs trading** and an **RNN** to web-scrape and analyze top news articles each day to long/short given stocks appropriately
- Used **Pandas**, **TensorFlow**, **NumPy**, and **Matplotlib** to analyze trends in data

Apr 2022 — Sep 2022 **Software Engineering Intern, CSafe** Boston, MA

- Collaborated with Prof. Carl Hobert (Boston University) to create an incident-reporting application
- Utilized **Flutter** to create multi-platform application on a single **Dart** code base
 - Worked with **Firebase Cloud Firestore** for authentication and database storage

Dec 2017 — Apr 2022 **Software Co-Lead, Stormgears FIRST Robotics** Boxborough, MA

- Learned the fundamentals of OOP through programming autonomous functions on robots using **Java**.
- Helped manage a sub-team of 10+ students.

PROJECTS

Dec 2022 **Golang Forex Back-Tester**

- Developed an Alpha back-tester using **Golang** and TrueFx's historical forex data
- Leveraged **Goroutines** and Go data structures to efficiently parse and test trading strategies on **millisecond data** (hundreds of millions of data points)
- Obtained data with Selenium and BeautifulSoup; tracked draw-down/growth over time with Go eCharts
- Profited 3.4x in 2 days with a simple mean reversion alpha on USD/EUR

Jul 2022 **Python Trading Bot w/ Sentiment Analysis**

- Used PyAlgoTrade library to back trade with a simple strategy that **outperformed SPY over 20 years**
- Introduced sentiment analysis on the DistilBERT model to influence buy/sell/hold decisions

SKILLS

Languages: Java, Python, C++, Go, Dart, HTML/CSS/JS
Software: Openstack, SLURM, Flutter, Firebase, Kubernetes, Docker, OpenCV, TensorFlow, NumPy, Pandas