Kaushik Vejju

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EDUCATION

University of Maryland, College Park   **College Park, MD**
Computer Science (B.S) ▪ **Cumulative GPA:** 3.932/4.0   **August 2021 – May 2024**
- **Relevant Coursework:** Object Oriented Programming II (Data Structures), Computer Systems, Discrete Structures, Algorithms, Organization of Programming Languages, Probability & Statistics I, Calculus II & III
- **Extracurricular Activities:** Smith Investment Fund (SIF), College Park Scholars, Scholars Advisory Board (SAB)

SKILLS & TECHNOLOGIES

- **Languages:** Java, C, Python, JavaScript, TypeScript, HTML5, CSS, Unix, **Frameworks:** Django, Angular, Spring Boot, **Development Tools:** Git, Postman, Vim, VS Code, Eclipse

EXPERIENCE

Prudential Financial   **Newark, NJ**
Software Development Intern   **June 2022 – August 2022**
- Utilized Angular framework to modify the UI and provide functionality for a language toggle on Prudential's Disability Insurance Calculator, making the website accessible in Spanish.
- Designed and implemented a RESTful microservice with Java Spring Boot, and defined endpoints in this service's API to validate and respond to client-side requests from the Disability Insurance Calculator UI.
- Enabled microservice to call stored procedures in an Oracle Database by installing the JDBC API using Gradle.
- Evaluated functionality of microservice through Postman and writing 80+ unit test cases to a Node.js test suite.

Smith Investment Fund (SIF)   **College Park, MD**
Junior Quantitative Analyst & Infrastructure Engineer   **October 2021 – Present**
- Selected member (< 12% acceptance rate) of Quantitative Team, responsible for researching optimal trading strategies for the fund's investment portfolio and enhancing the team's technical infrastructure.
- Received introductory Quantitative Finance training, and engineered a momentum-based trading strategy using Jupyter Notebook, Python libraries (NumPy, pandas), and SIF's infrastructure.
- Currently leveraging Django and Algolia's Search API to implement a proof-of-concept for *SIFSearch,* a utility that enables club members to search and upload media to SIF's databases, promoting efficient access of information.

Finacle Soft Inc.   **Princeton, NJ**
Technology Intern   **July 2020 – September 2020**
- Developed demos and provided documentation for the company's Swift CDS product, a digital application for automated credit trading and risk analysis.
- Utilized Python and the QuantConnect platform to learn and document findings on algorithmic trading practices and gain an understanding of key financial concepts, including credit default swaps, ETFs, and mutual funds.

PROJECTS

Prudential Annuities Page: Global Technology Hackathon
ReactJS, TypeScript, Python, HTML, CSS, AWS Cloud 9, Amazon S3
- Built a single-page-application with ReactJS that displays raw annuity data from an Excel spreadsheet in a consolidated and easily navigable manner.
- Implemented a Python script to create a JSON file from the annuity data, which the front-end code utilized to present the appropriate metrics in the UI.
- Won 1st Place in Prudential's Global Technology Intern Hackathon.

Automotive Dataset Analysis & Trading Strategy (Source Code)
Python, Jupyter Notebook, yfinance, pandas, NumPy, matplotlib
- Jupyter notebook that analyzes and visualizes trends in automotive stocks (Lucid, GM, and NIO), and runs a mean reversion-based trading strategy on NIO stock specifically.
- Assessed the strategy's performance by comparing its cumulative returns with those of the S&P ADR index.

Random Punch (Source Code)
- Java-based game that simulates a fight between two characters and includes a small twist: players can only land attacks upon correctly guessing a randomly generated number.

LEADERSHIP

College Park Scholars Advisory Board (SAB)   **College Park, MD**
Board Member   **September 2021 – Present**
- Elected student representative for Science, Discovery, and The Universe Scholars program.
- Coordinating with board members to organize and manage Scholars-related events and initiatives to improve the experience of 500+ students in College Park Scholars.