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:** Data Structures (Object Oriented Programming II), Computer Systems, Discrete Structures, Algorithms, Organization of Programming Languages, Applied 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, JUnit, **Development Tools:** Git, Postman, Vim, VS Code, Eclipse, Oracle SQL Developer

EXPERIENCE

Prudential Financial — **Newark, NJ**
Software Development Intern — **June 2022 – August 2022**

- Utilized Angular and TypeScript to apply UI enhancements and provide functionality for a language toggle on Prudential's Disability Insurance Calculator, making 60+ phrases/sentences in the website accessible in Spanish.
- Took lead on the design and complete implementation of a new RESTful microservice with Java Spring Boot by defining the class organization, configuring the necessary dependencies with Gradle, and developing a REST API with endpoints to validate and respond to 100+ client-side requests from the Disability Insurance Calculator UI.
- Enabled microservice to interface with the JDBC API to call SQL stored procedures and store 50+ user details in an Oracle Database, and evaluated its functionality through Postman and writing 80+ unit test cases to a Node.js test suite.
- Presented the modernized full-stack application to over 30 software developers in the Global Technology department.

Smith Investment Fund (SIF) — **College Park, MD**
Junior Quantitative Analyst & Infrastructure Engineer — **October 2021 – Present**

- Selected member (< 12% acceptance rate) of Quantitative Team, and completed introductory Quantitative Finance training on concepts such as data science, statistical analysis, financial modeling, and portfolio management.
- Collaborated with 1 junior analyst to engineer a momentum-based alpha trading strategy using Jupyter Notebook, Python libraries (NumPy, pandas, matplotlib), and SIF's infrastructure for back testing.
- Co-leading the development of a proof-of-concept for *SIFSearch,* a Django-based application that leverages Algolia's Search API to enable 20+ club members to upload and search for relevant media in a PostgreSQL database.

Finacle Soft Inc. — **Princeton, NJ**
Technology Intern — **July 2020 – September 2020**

- Authored documentation for Swift CDS, a digital application for automated credit trading and risk analysis.
- Utilized Python and the QuantConnect platform to learn and document findings on common algorithmic trading practices and discussed progress with 10+ interns during weekly stand-up sessions.

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 5 years of raw annuity data from an Excel spreadsheet in a consolidated and easily navigable manner and deployed the website to an Amazon S3 bucket.
- 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 based on the user's selection of an annuity product and asset group.
- 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 performs an exploratory data analysis on 3 automotive stocks (Lucid, GM, and NIO) by identifying and visualizing trends in key metrics such as the closing price, volume traded, and yearly returns.
- Designed a mean-reversion based trading strategy on NIO stock and assessed the strategy's performance by comparing its cumulative returns with those of the S&P ADR index from 1 year of historical data.

Random Punch (Source Code)

- Java-based game that simulates a fight between two characters, where players can only land attacks or perform special moves upon correctly guessing a randomly generated number.
- Developed project with fundamental object-oriented design concepts, specifically inheritance and polymorphism.

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.