

# Kaushik Vejju

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## EDUCATION

**University of Maryland, College Park**

**Computer Science (B.S) ▪ Cumulative GPA: 3.93/4.0**

**College Park, MD**

**August 2021 – May 2024**

- **Relevant Coursework:** Data Structures (Object Oriented Programming II), Computer Systems, Discrete Structures, Algorithms, Organization of Programming Languages, Probability & Statistics I, Calculus II & III

## TECHNICAL SKILLS

- **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

**University of Maryland: Computer Science Department**

**Undergraduate Teaching Assistant**

**College Park, MD**

**August 2022 – Current**

- Grading assignments for 200+ students in Professor Yoon's Introduction to Computer Systems Class.
- Hosting weekly office hours to resolve technical issues during environment setup, provide guidance on projects, and clarify course topics such as C programming, dynamic memory allocation, and process control.

**Prudential Financial**

**Software Development Intern**

**Newark, NJ**

**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.
- Designed and fully implemented a new RESTful microservice with Java Spring Boot, and defined endpoints in this service's API 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 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 developers in the Global Technology department.

**Smith Investment Fund (SIF)**

**Junior Quantitative Analyst & Infrastructure Engineer**

**College Park, MD**

**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, and financial modeling.
- 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 *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.

## PROJECTS

**Prudential Hackathon: Annuities Page** — *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 an 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 1<sup>st</sup> Place in Prudential's Global Technology Intern Hackathon.

**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 the closing price, volume traded, and yearly returns.
- Designed a mean-reversion based trading strategy for NIO stock and assessed its 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.

## LEADERSHIP

**College Park Scholars Advisory Board (SAB)**

**Board Member**

**College Park, MD**

**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.