# Aaron Epstein

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## Education

**B.S. Information Systems, University of Maryland, College Park**                    Expected Dec. 2023
- **Technologies:** Python, Pandas, Requests, Dash, NumPy, Git, Excel, SQL, and GCP deployment          GPA: 3.71
- **Coursework:** Object-oriented Programming 1 and 2 in Java, Linear Algebra, and Money and Banking

## Experience

**Data Engineering Intern,** Deutsche Bank                    Jun. 2023 – Aug. 2023 | New York, NY
- Developed a **Python/Dash** based network graph to visualize inefficient client management processes
- Placed second for New York in the annual DB global hackathon for developing and deploying AI based PDF query using vector databases and embedding

**Data Engineering Intern,** U.S. Securities and Exchange Commission      May 2022 – Jul. 2022 | Washington, D.C.
- Web scraped (**Python**) over 2TB of short sale trading data from financial regulator APIs and FTP sites
- Processed 21 million rows of securities data in **Python** to visualize trading trends for an SEC researcher
- Contributed to an investigation of atypical changes in over-the-counter securities transactions

**Meta Data Challenge Finalist,** Meta (Facebook)                    Mar. 2022 – Aug. 2022 | Remote
- One of 86 undergraduate students in North America selected for a five-month data science apprenticeship
- Web scraped thousands of review counts, descriptions, and ratings to produce **Matplotlib** data visualizations
- Pitched findings to two Meta data scientists

**Economic Intern,** U.S. Federal Reserve Board of Governors          Jun. 2021 – Aug. 2021 | Washington, D.C.
- Standardized a **Python** program that detects outliers for billions of dollars reported by depository institutions
- Queried **(PostgreSQL)** servers for over 500,000 rows to produce monetary threshold statistics
- Automated **Excel** spreadsheet production with **Pandas** to aid in calculations related to the discount window

## Projects

**Diamondback Newspaper Data Consultant**                    Sep. 2022 – Dec. 2022 | College Park, MD
- Analyzed 11,000 news articles to determine searchability trends
- Created **TensorFlow** deep learning model to predict and improve searchability of future articles

**Rotation Period Determination of 3736 Rokoske**                    Mar. 2022 – May 2022 | College Park, MD
- Produced and combined light curves in MPO Canopus to discover the rotation period of asteroid 3736 Rokoske
- Co-authored an astronomical research paper published in the fall 2022 Minor Planet Bulletin

## Involvement and Awards

**2nd Place Northrop Grumman Ethics in AI and ML Challenge**                    Dec. 2022 | College Park, MD
- Presented findings of ethical challenges posed by machine learning currently used in higher education
- Developed biased statistical models to demonstrate consequences of AI based scholarship allocation

**Business, Society, and the Economy Scholar**                    Sep. 2020 – May 2022 | College Park, MD
- Guided seven students in a peer mentorship program
- Engaged in simulations, case competitions, and workshops focused on developing business acumen

**Certificate of Meritorious Service**                    May 2020 | Bethesda, MD
- Volunteered for over 260 hours within Montgomery County