Akash Pandya

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Education

University of Maryland - College Park **August 2023 – May 2027**
Bachelor of Science in Computer Science, Minor in Economics *GPA: 3.6*

***Relevant Coursework**: Computer Systems, Organization of Programming Languages, Discrete Structures and Algorithms, Applied Probability and Statistics, Linear Algebra, Microeconomics, Macroeconomics*

Technical Skills

Languages: Java, Python, C, HTML/CSS/JavaScript (JS), SQL, SPL, R
Developer Tools: IntelliJ, VSCode, Angular, Node.js, Eclipse, Replit, Shiny App, Amazon Q Developer, Microsoft Copilot
Technologies/Systems: BitBucket, Jenkins, GitHub, Jira, Toad for Oracle, SonarQube, Nexus, Karma, Assembly, LaTeX
Business Skills: Trade Automation, Data Engineering, Trade Data Pipelines, KPI Metric Reporting, Agile

Experience

Depository Trust and Clearing Corporation (DTCC) **June 2024 – August 2024, June 2025 – August 2025**
Information Technology Intern *Jersey City, New Jersey*

Summer 2025

- Supported migration of legacy **Funds Only Settlement Web platform** into DTCC's **modern Real-Time Trade Matching Web application**, improving on functionality to aid in the net/settlement of **over 10 trillion dollars of volume a day**
- Developed and integrated **10+ UI components** with **Angular** and developed RESTful APIs using Spring Boot backend in **Java**, while simultaneously ensuring **90% unit test code coverage** and CI/CD packaging using **Jenkins**
- Collaborated in **Agile sprints via Jira**, wrote user stories, planned tasks, and accelerated **story point completion by 20%** through streamlined workflows and Sprint Retro analysis
- Utilized **Microsoft Copilot** to optimize developmental processes and improve story completion within each sprint

Summer 2024

- Automated aggregation of **KPI metric** test results using **Splunk Programming Language (SPL)**, reducing manual reporting effort by **8+ hours per week**, and enabling more frequent performance monitoring
- Streamlined Global Trade Repository alert analysis using SPL, **improving reporting turnaround time by 30%** and delivering automated daily reports for the Alerts Team

OpenData **February 2024 – June 2024**
Spring Research Intern (Remote) *New Jersey*

- Supported research for an **AI-driven data marketplace** platform by evaluating free and commercial data sources for potential integration into the product
- Assisted in the initial exploration of **machine learning techniques** to automate data quality assessments, focusing on identifying key data characteristics such as **metadata coverage, update frequency, and dataset uniqueness**
- **Analyzed 10+ data marketplaces and providers**, comparing pricing models, data offerings, and AI capabilities to inform the product roadmap and **prioritize 3 features** focused on **automated data recommendations** and user search tools

Projects

Python Instruction Curriculum (Chatham Library Partnership) | *Python, Replit* ***February 2022 – June 2023***

- Taught **Python fundamentals to 50+ students over 6 separate sessions**, inspiring many to pursue advanced computer science courses
- Collaborated with faculty members to develop advanced curriculum pathways for experienced students
- Instructed on range of concepts including **loops, arrays, variable assignment, and conditional statements**

Forensic Tester Application | *R Studio, Shiny App, Shiny Cloud* ***June 2021 – August 2021***

- Led development of forensic analysis web application, later **acquired by Data Unlimited International**, demonstrating enterprise-level scalability and market validation
- Engineered **R Studio**-based web application for forensic sample analysis, successfully processing **100+ samples** through internal database comparison
- Implemented **Shiny App/Cloud** front end with backend data pulls in **R**, delivering multi-device accessibility for forensic investigators