SAHIR MODY

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EXPERIENCE

Software Development Engineer • Amazon

August 2022 - PRESENT

- Designed and developed an experimental validator in Java to create curated detail pages for high-value Amazon sellers that protected 1,400+ item families from instability and reduced catalog churn for the initial selected selling partners by over 45%
- Documented the validator's behavior by writing an integration test suite to cover complex cases and added queryable logs through SQL and AWS Athena to monitor its effects on Amazon's catalog, as well as dashboards to track its performance
- · Engineered a new Java service using AWS CDK and Smithy to enrich seller product submissions with package hierarchies
- Added comprehensive metrics reporting and error handling to the new service, and integrated clients for downstream system dependencies, resulting in a highly available service monitored in real-time/easily troubleshooted using AWS CloudWatch
- Authored comprehensive documentation, runbooks, test and launch strategies, and dashboards for my team's new service, enabling 6 other developers to quickly onboard to the project, collaborate effectively, and debug the service during on-call shifts
- Analyzed the root causes of test suite failures blocking production deployments across multiple teams over several months, and designed and executed a mitigation strategy to refactor/decouple test suites and reduce the test failure rates by over 50%
- Automated my team's standard operating procedures by writing Python scripts to query databases/diagnostic tools and summarize results, enabling the on-call to complete root cause analyses and mitigation of high severity events 10 times faster
- Led my team's Kanban process, tracking productivity metrics and collaborating with team members to address pain points/facilitate knowledge sharing sessions to give developers more visibility into the team's larger goals and projects
- Served as team's policy risk manager, mitigating over 70% of long-standing violations related to dead code within 3 months

Software Development Engineer Intern • Amazon

June 2021 – August 2021

- Implemented an AWS Lambda to periodically retrieve schema for 10,000+ catalog attributes and cache data in S3
- Developed a query builder UI with React to pull cached attributes and help users construct complex SQL queries without error
- · Added usage metrics and access control for new UI to see how effectively it addressed customer issues about writing queries

Software Engineering Intern • Capital One

June 2020 - August 2020

- Engineered a dashboard application with D3.js to track, visualize, and query software usage data across the company
- Implemented Flask API endpoints to retrieve results of company-wide database queries and format data for visualizations

Software Engineering Intern • Capital One

June 2019 - December 2019

- Wrote Python scripts in Jupyter Lab to process 2,000+ cybersecurity events and find patterns indicating suspicious behavior
- Integrated C3.js into language processing app UI to create more intuitive and interactive visualizations of model results

EDUCATION

University of Maryland, College Park

August 2018 - May 2022

B.S. in Computer Science with Business Analytics Minor $\, \bullet \,$ Cum Laude

TECHNICAL SKILLS

Programming	Languages:	Java Py	thon SQL	C HTM	IL CSS	JavaScript	
Technologies:	Amazon Web	Services	Git Flask	(Keras) (No	ode.js Ex	press jQue	ry Mockito
Projects							

Moodbird Satisfaction Dashboard

- Built an API with Flask to perform sentiment analysis with Python NLTK on thousands of tweets based on search terms and created an interactive graphical dashboard with Chart.js to retrieve and summarize the analysis results in simple visualizations
- Project placed in the Top 3 out of 10 teams at the Capital One Software Engineering Summit Hackathon

Machine Learning Stock Predictor

• Implemented a web application tool to retrieve and pre-process a company's historical stock data with Pandas, train a neural network created with Keras, and display line graphs of the model's predictions after each epoch of training with C3.js