

# SAHIR MODY

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## EXPERIENCE

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### Software Engineer I • Amazon

August 2022 – PRESENT

- Engineered a Java API service hosted on AWS to enrich seller product submissions involving multiple package hierarchies
- Implemented comprehensive metrics reporting and error handling, and built/integrated clients for downstream system dependencies, resulting in a highly available service monitored in real-time and easily troubleshooted using AWS CloudWatch
- Wrote integration tests to verify correctness and executed load tests to verify the performance and TPS limits of the service
- Authored comprehensive documentation, runbooks, test and launch strategies, and dashboards for the team's new API, enabling 6 other developers to quickly onboard to the project, collaborate effectively, and debug the service during on-call shifts
- Designed and developed validator to protect 100+ item families and create curated detail pages for high-value Amazon sellers, as well as dashboards and queryable logs to monitor the validator's performance and its effects on Amazon's product catalog
- Led the team's Kanban process, collaborating with team members to optimize workflows and facilitate knowledge sharing sessions to give developers more visibility into the team's larger goals and projects, as well as track productivity metrics
- Served as the team's policy risk manager, identifying and mitigating over 70% of long-standing violations within 3 months
- Tracked root causes of automated test suite failures blocking deployments across multiple teams, and collaborated with product managers to outline and prioritize projects to reduce test failure rates by over 50% and increase developer agility

### Software Engineering 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 JavaScript and Flask to track software usage data over thousands of computers
- Created API endpoints to retrieve results of company-wide database queries and format data to be used in 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
- Redesigned language processing and data visualization app interface to be more intuitive and user-friendly using C3.js

## EDUCATION

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### University of Maryland, College Park

August 2018 – May 2022

B.S. in Computer Science with Business Analytics Minor • Magna Cum Laude

## TECHNICAL SKILLS

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**Programming Languages:** Java Python C HTML CSS JavaScript

**Technologies:** Git Mockito Lombok Smithy Keras Pandas Flask Node.js jQuery AWS React

## PROJECTS

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### 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

### jSearch Web Application

- Deployed an application on Heroku to allow users to search for 100,000+ archived Jeopardy questions based on responsive filters created with jQuery and mark certain questions as favorites so that they can be saved and returned to in another session