Sahir Mody

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EDUCATION

University of Maryland, College Park August 2018 – May 2022

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

TECHNICAL SKILLS

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

Technologies: Git | Flask | Keras | Pandas | Mockito | Node.js | jQuery | Amazon Web Services

EXPERIENCE

Software Engineer I • *Amazon* August 2022 – PRESENT

- Building a Java REST API to extend Amazon's Catalog Relationships logic to support more use cases for Sellers/Vendors
- Integrated Smithy and Coral to define service interface and Guice and Mockito for dependency injection and mocking
- Implementing access clients to read Catalog data from external services and health tests for clients in each deployment stage
- Acting as Kanban Master and re-organizing the team's Kanban process to facilitate knowledge sharing among team members

Software Engineering Intern • *Amazon* June 2021 – August 2021

- Developed AWS Lambda to periodically retrieve schema for 10,000+ catalog attributes and cache data in S3 for quick access
- Designed UI with React query builder components to pull cached attributes and allow users to construct complex SQL queries
- Added usage metrics and access control for query builder to see how effective new features were for small groups of customers

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 Tech Incubator* 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

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

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

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