SAHIR MODY

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WORK EXPERIENCE

Software Engineering Intern @ Capital One

📅 JUNE 2020 – AUGUST 2020   📍 REMOTE (*due to COVID-19*)

- Constructed a software usage analytics dashboard web app using Angular and Flask with Agile development practices
- Engineered a data pipeline to process results of company-wide database queries and format data for dynamic visualizations

System Administrator @ UMD Physics Department

📅 AUGUST 2019 – MAY 2020   📍 College Park, MD

- Coordinated a team of students to efficiently install softwares required to manage and monitor computing cluster servers
- Assisted professor in expanding computer cluster by configuring several new servers and managing hundreds of cluster accounts

Software Engineering Intern @ Capital One

📅 JUNE 2019 – DECEMBER 2019   📍 College Park, MD

- Redesigned data visualization of natural language app using C3.js to be more user-friendly and display optimal hyperparameters
- Wrote Python scripts to analyze thousands of cybersecurity events and find patterns indicating suspicious behaviors

PROJECTS

Customer Satisfaction Dashboard

Top 3 at the Capital One Software Engineering Summit Hackathon

- Performed Sentiment Analysis on thousands of filtered tweets to determine customer attitudes towards businesses and products
- Built an interactive graphical dashboard with Chart.js to show analysis results and allow users to search by specific terms

Machine Learning Stock Predictor

- Implemented a web app tool with Flask intended to help day traders predict closing prices of stocks based on historical data
- Developed a pre-processor and neural network using Python and Keras to clean data from API, train models, and make predictions

jSearch Web Application

- Deployed an app to allow users to search for Jeopardy questions based on dynamic filters and cache selected favorite results
- Integrated JavaScript frontend and Python middleware components to quickly display query results in intuitive user interface

EDUCATION

B.Sc. in Computer Science with Business Analytics Minor

University of Maryland-College Park

📅 AUGUST 2018 – MAY 2022

- **Cumulative GPA**: 3.98/4.0
- **Professional Organizations**:

  Kappa Theta Pi (*Vice President*)
  University of Maryland Honors College
  Computer Science Departmental Honors
- **Relevant Coursework**:

  Object-Oriented Programming
  Introduction to Computer Systems
  Discrete Structures and Mathematics
  Organization of Programming Languages
  Algorithms and Algorithmic Analysis

TECHNICAL SKILLS

Languages

Java   Python   C   HTML   CSS   JavaScript   TeX   OCaml

Packages/Frameworks

Flask   Keras   Pandas   Scikit-Learn   jQuery   Express   Chart.js   C3.js   Angular   Swing

Technologies/Softwares

Node.js   Git/GitHub   Heroku   Google Suite   Microsoft Office

Certifications

Amazon Web Services Cloud Practitioner