# SAHIR MODY

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## WORK EXPERIENCE

### Software Engineering Intern @ Capital One

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

- Used Agile development practices to create a software usage analytics dashboard as part of an existing cloud application
- Created data pipeline to process the results of company-wide database queries and format data for dynamic visualizations

### System Administrator @ UMD Physics Department

📅 AUGUST 2019 – MAY 2020  📍 College Park, MD

- Assisted professor in expanding computing cluster by configuring several new servers and managing hundreds of cluster accounts
- Coordinated team of students to efficiently install and set up other softwares required to manage the computing cluster

### Software Engineering Intern @ Capital One

📅 JUNE 2019 – DECEMBER 2019  📍 College Park, MD

- Redesigned data visualization of language processing app to be more user-friendly and display optimal hyperparameters
- Wrote scripts to analyze thousands of cybersecurity events and find patterns indicating potentially suspicious behavior

## PROJECTS

### Customer Satisfaction Dashboard

- Performed Sentiment Analysis on filtered tweets to determine customer attitudes towards businesses and products
- Designed interactive dashboard to summarize analysis results and allow user to filter tweets by search terms
- Project earned Top 3 out of 10 teams at the Capital One Software Engineering Summit Hackathon in January 2020

### Machine Learning Stock Predictor

- Created web application tool intended to help day traders predict daily closing prices of stocks based on historical data
- Developed pre-processor and neural network to clean data retrieved from an API, train models, and make predictions
- Constructed webpages with interactive graphs to show model predictions and error statistics over many epochs of training

## 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*)
  Maryland Honors College
- **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  HTML  CSS  JavaScript  TeX  OCaml  C  Ruby  MATLAB  Assembly

### 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