Naseeba Faiza

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Education

Stony Brook University Stony Brook, NY

Bachelor of Science in Computer Science *Feb 2021- Dec 2024*

- **Awards**: Dean's List
- **Activities**: Applied Mathematics Teaching Assistant for Probability and Statistics, Applied Mathematics Teaching Assistant for Linear Algebra, Women in Computer Science Mentor and Career Panelist
- **Relevant Coursework**: Discrete Mathematics, Linear Algebra, Probability and Statistics, Analysis of Algorithms, Web Development, Computer Networks, Graph Theory, Statistical Methods for Data Science
- **Certifications**: CodePath Data Structures Course, Udemy Python Bootcamp

Technical Skills

Languages: Java, Python, Lua, Javascript, C, Ruby, SQL, R
Frameworks: React, IBM Carbon System
CI/CD Tools: Git, Github, Gerrit, Gitlab, Jenkins, Docker
Libraries: JSON, HTML/CSS, JUnit, KNN, Matplotlib, SciKit, NumPy, Pandas
Tools & Platforms: Jira, Postman, MongoDB, Lighttpd, Linux
Methodologies: Unit Testing, Data Analysis, Linear Regression, Machine Learning Algorithms, Data Visualization, Scrum, Agile Methodologies

Experience

Full-Stack Software Engineer Intern May 2023 – Aug 2023

Cisco Meraki *Chicago, Illinois*

- Used Ruby, Lua, Lighttpd, and C++, to develop debug-ability on cutting-edge Meraki Vision cameras which reduced debugging by half.
- Created a Grafana dashboard to showcase Smart Codec Observability implemented within all active Meraki Vision generation 2 and 3 cameras, which streamlined testing and enhanced visibility by 90%.
- Analyzed large active camera datasets and conducted statistical analysis to quantify the impact of Smart Codec on retention.

Client-Facing Software Engineer Intern/Co-op May 2022 – Dec 2022

IBM *Poughkeepsie, New York*

- Used React.js/Redux, Node.js, JSON, Flask, CouchDB, and IBM Carbon Design Systems to develop both the frontend and backend of WebIPCS, a modern web application to ease debugging on a browser by 82% and modernize the existing legacy application IPCS.
- Obtained core knowledge about the z/OS system and debugged sample z/OS dumps using IPCS and WebIPCS.

Projects

Smart Codec Observability Grafana Dashboard

Grafana, JSON, Ruby, Gerrit, Unit Testing, Jenkins

- Created a dashboard which served a showcasing tool for various implementations made to show the impacts of Smart Codec on the Meraki Vision cameras' video retention, allowing new observability by 100%

Video Streaming Debug-ability Elastic Data Analytics Fields

Ruby, Lua, C++, C, Meraki libraries, Lighttpd

- Developed error handling features on camera and on the backend to show cleaner, JSON-parsed error responses on Elastic, reducing debugging by 50%.

iPhone CO2 Emissions Prediction Machine Learning Research

Python, Pandas, scikit-learn, Linear Regression, Cross-Validation

- Developed and optimized a Linear Regression model using Python and scikit-learn to predict CO2 emissions from iPhone models, achieving an RMSE of 3.45 with 10-fold cross-validation.