Ruqayyah Muse

ruqayyahmuse@gmail.com | +1 470-699-5678

github | linkedin | portfolio

Education

Bachelor of Science - Data Science — **Grad Year: Dec 2023**

Georgia State University — *Atlanta, GA*

- Graduated summa cum laude — GPA: 4.12
- Received Honors Laureate Distinction
- **Relevant coursework:** Data Structures, Ethics for Data Science, Design & Analysis of Algorithms, Fundamentals of Data Science, Machine Learning, Artificial Intelligence, Database Systems, Big Data Programming, Data Mining

Skills

Languages	Python | Java | JavaScript | TypeScript | SQL | HTML | CSS | PHP
Libraries	Matplotlib | Pandas | SciKit Learn | React.js | Node.js | RTK Query | Faust.js
Technologies	Git | GitHub | DynamoDB | Hadoop | Linux

Experience

Amazon — **May 2023 - Aug 2023**

Software Engineer Intern — *Seattle, WA*

- Implemented a new setting feature for the Amazon Photos app and the Amazon Echo Show using Java for the backend architecture, while using RTK Query and TypeScript for the frontend, ensuring iOS and Android compatibility.
- Utilized technical design documents for feature design, Jira for task tracking, and Sprint planning documents to ensure project alignment with timeline objectives.
- Conducted unit, integration, and manual testing, resulting in a successful feature deployment behind a feature gate.
- Collaborated with several cross-functional teams to modify external packages that were integral to the added setting feature.

WP Engine — **Jun 2023 - Aug 2023**

Software Engineer Intern — *Remote, US*

- Utilized Faust.js, WPGraphQL queries, JavaScript, TypeScript, and React to develop webpage elements and present content on the Faust.js documentation site, ensuring a smooth and engaging user experience.
- Engaged in Agile development methodologies by participating in Sprint cycles, managing tasks through Jira, and preparing stories for future sprint refinement. Managed roughly 3 to 4 tasks per Sprint.
- Initiated and contributed to the development of a Sprint Refinement tool, addressing pain points in current services, and streamlining estimation processes for internal teams.

Projects

SDO Image Parameter Python API (Capstone Project) — **PyPI Index**

- Created a Python package that allows users to efficiently access and analyze solar image parameter information, totaling over 12 TiB, from a Web-based API.
- Managed version control using Bitbucket and utilized PyCharm as the primary coding environment.
- Packaged the code for distribution using PyPI, making it readily available for others to use.

MARTA+ — **GitHub Repository**

- Worked with a team to build a React-based website that helps users plan trips using Atlanta's railway system.
- Implemented a MySQL database with numerous tables connected by various types of relationships, ensuring efficient data storage and retrieval.
- Developed a Python script to automate the creation of 726 SQL insert statements across 3 tables, resulting in significant time savings and increased accuracy.
- Contributed to the front-end development by building the Schedule page and applying CSS styles to all pages, resulting in a visually appealing and user-friendly interface.

Employee Attrition Rates Machine Learning Project — **GitHub Repository**

- Managed a team of 3 to develop machine learning models that predicted and analyzed attrition in an employee dataset consisting of 4000+ entries with 28 attributes, achieving the best accuracy of 86.91%.
- Explored, cleaned, and normalized the data using various data analysis techniques such as clamping outliers and visualizing the distribution of continuous attributes.
- Implemented hyper-parameter optimization using GridSearch to fine-tune the model and improve its accuracy.

Machine Learning/Data Mining Algorithms Implementation

- Implemented SVM, Neural Network, K-Means, and K-Medoids machine learning algorithms.
- SVM and Neural Network - GitHub Repository | K-Means and K-Medoids - GitHub Repository