Sarmad Afzal

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EDUCATION

Hunter College   New York, NY

Bachelor of Arts in Computer Science   *May 2023*

- Relevant Coursework: Software Analysis and Design I, II, & III (C++), Computer Architecture I & II, Computer Theory, Operating Systems, Practical Web Development, Database Management (SQL/ R), Cloud Computing(AWS)

EXPERIENCE

Atlantis Management Group   New York, NY

Marketing Developer   *July 2021 - Present*

- Implement Python scripts with Flask to automate data extraction, ensuring consistent and accurate performance metrics for informed decision-making. Streamline data processing and analysis through custom-built APIs for seamless data exchange and integration between software components.
- Employ PostgreSQL database management techniques to aggregate and manage large data sets, implementing database indexing, normalization, and partitioning for optimal performance.
- Optimize UI/UX on both web and mobile platforms utilizing proficiency in Typescript, React, and React Native. Collaborate with cross-functional teams to ensure seamless integration and deployment using AWS tools including EC2, S3, Lambda, and CloudFront. Improve system performance and scalability by implementing automated testing and CI/CD pipelines.
- Conduct comprehensive ASO/SEO analysis utilizing Google Analytics and A/B testing techniques to evaluate application performance. Present detailed reports to management, sharing data-driven strategies and actionable insights to drive user acquisition, retention, and overall product success.

Project Rousseau   New York, NY

Community Service/ Tutor   *September 2016 – August 2018*

- Volunteered weekly to tutor high school students in STEM subjects and prepare them for the SHSAT, as well as serve meals and provide assistance at soup kitchens, homeless shelters, and nursing homes.

PROJECTS

ReciPy (JavaScript, TypeScript, Python, AWS)   *September 2022 - December 2022*

- Developed and deployed a personalized meal-generation app using Python, Typescript, React Native, and AWS, leveraging API and web-scraped data to provide diet-specific meal recommendations and a K-means clustering-based recommender system to suggest similar meal options based on user preferences.
- Integrated barcode scanning, expiration tracking, and push notifications to enable digital pantry management and personalized recipe generation while improving food waste reduction and user experience.
- Created a social networking feature using AWS Amplify, S3, and Cognito to allow users to interact and post content on a personalized feed. Employed GraphQL API for efficient data management and streamlined user experience. Conducted unit testing with Jest to ensure smooth functionality and minimize the risk of UI/UX bugs.

Employee Management System (JavaScript, PostgreSQL, Heroku)   *November 2022 - December 2022*

- Implemented a RESTful full-stack web application to manage tasks and employees using Node, Express, React, Redux, PostgreSQL, and Sequelize. Implemented separate repositories for the server and client to ensure modularity and separation of concerns. Successfully designed and deployed user stories for CRUD operations, models with many-to-many relationships, real-time error messages, and client-side routing with React-Router.

Covid-19 Data Visualizer (R, HTML, CSS, SQL)   *October 2022*

- Built a web application utilizing HTML, CSS, R Shiny, and ggplot2 to provide global insights on various aspects of the Covid-19 pandemic through interactive visualizations. Utilized unit testing in JUnit to catch errors that could impact the accuracy of the data presented.

DCA Investment Projector (Swift)   *August 2022 - October 2022*

- Developed a dollar cost averaging calculator using Swift and UIKit, allowing users to search for stocks using an API service and calculate projected earnings based on initial investment, monthly adjusted investment, and initial date of investment. Utilized XCTest to ensure accurate calculations and seamless functionality.

SKILLS

- JavaScript (Express, Node.js, React, React Native), TypeScript, Python (Django, Flask), HTML5, CSS3, PostgreSQL, AWS (EC2, Lambda, S3, DynamoDB, CloudFront, API Gateway), MongoDB, Docker, Linux, Git, Microsoft Office