MOHAMMAD RASOOL

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TECHNICAL SKILLS

Languages: Java, JavaScript, HTML5, CSS3, Python, Scheme, C, SQL, R
Frameworks: Bootstrap, JQuery, React, Hadoop MapReduce, JUnit, Apache Spark
Developer Tools: Git, VS Code, Visual Studio, GitBash, GitHub, Vim, Eclipse, AWS EC2, S3, VPC, CloudFormation, RDS, Elastic Beanstalk, API Gateway, Route 53, MySQL, Apache Tomcat, Jupyter Notebook
Libraries: Beautiful Soup, JSwing, Apache Commons, JSoup, tkinter
Certifications: AWS Certified Cloud Practitioner, AWS Solutions Architect (In Progress), Adobe Dreamweaver, Photoshop & Premiere Pro

EXPERIENCE

Cloud Infrastructure Intern
Jun. 2023 – Current

New Orleans, LA *DXC Technology*

- Collaborated with a cross-functional team on the "Rapid Prototyping with Generative AI" project, utilizing Microsoft Azure, OpenAI API, and Cognitive Services to streamline the ideation-to-prototyping timeline from 6 weeks to just 1 week, a 600% improvement in efficiency.
- Fulfill the role of a Cloud Infrastructure Engineer, actively contributing to project development to employ cloud infrastructure, generative AI capabilities, and enhanced functionality to establish an optimized workflow.
- Acted as team lead while participating in all Agile activities including Daily Scrums, Sprint Reviews, weekly check-ins with managers, using Jira and Miro boards for efficient progress tracking, task management, and alignment.
- Worked with AWS to deploy infrastructure using IaC and CloudFormation templates to streamline deployment of cloud resources.

Coding Instructor
Aug. 2021 – Current

Remote

- Led a team of 6 students in a comprehensive curriculum covering Web Development, Basic Programming, Algebra, and Geometry.
- Delivered curriculum on HTML, CSS, and JavaScript guiding them through in-depth, hands-on projects including creating simple web pages from design to deployment.
- Instructed students on using VS Code, Adobe Dreamweaver for production, GitHub for source control, and GitHub Pages for hosting static web pages.

PROJECTS

Fit Happens | *C#, ASP.NET, ReactJS, Firebase, MySQL, HTML, CSS, JavaScript*
- Collaborated with a team of six members to develop a full-stack application aimed at efficiently tracking workouts.
- Created Fit Happens with custom options, Firebase authentication for secure login and storage of custom workouts.
- Utilized MySQL databases to store user data, including login and personalized workout details, ensuring efficient management of information.
- Implemented Agile Software Engineering methodology to drive the iterative development of the project, culminating in a successful presentation of the full project.

Python Sorting Algorithm Visualizer | *Python, tkinter*
- Python application with custom GUI built using tkinter library and managed via GitHub.
- Visually demonstrates Bubble sort, Quick sort, and Merge sort algorithms on randomly generated values, using color schemes to clarify each event during the sorting process.
- Enabled customization of minimum and maximum generated values, array size, and sorting algorithm speed, added a visual interface that allows users to witness the sorting process in real-time.

EDUCATION

Louisiana State University
Baton Rouge, LA

Bachelor in Computer Science, Minor in Mathematics *Aug. 2020 – Dec 2023*

- GPA: 3.66 / 4.00
- Relevant Coursework: Advanced Data Structures and Algorithms with Java, Operating Systems, Discrete Mathematics, Cloud Fundamentals and Web Programming, Database Management Systems, Computer Networking, Cloud Systems and Virtualization, Object Oriented Programming.
- Awards/Honors: Dean's List, TOPS Recipient Aug 2020 – Current