Muhammad M. Aslam

Full-stack Developer/Analyst

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Education
University of Houston
Bachelor of Science in **Computer Science**   Cumulative GPA: 3.459   **Aug 2019 - Aug 2022**
Minor: Business Administration and Math
Coursework: Data Structures, Software Design, Intro to Algorithms, Data Science I, Software Engineer Principles, Database Systems

Experience
City of Houston – Transportation and Drainage Operations
GIS Analyst   **Sept 2019 – Present**
- Responsible for managing the Ditch Re-establishment and SWAT applications, ensuring efficient operation.
- Oversaw the mapping and determination of water flow for Mayor Sylvester Turner's Pavement Project, covering over 3000 gravity mains, off-road ditches, culverts, etc.
- Demonstrated proficiency in analyzing geospatial data and technical documents for daily tasks.
- Coordinated the SCADA project, identifying 15 high-risk flooding areas and mapping 150 water facilities, enhancing the city's flood management capabilities.
- Utilized Python data extraction to collect over 10,000 asset locations for data analysis purposes for the Smart City project.

Principal Financial Group
Software Engineering Intern   **May 2022 – Aug 2022**
- Acquired proficient knowledge of Infrastructure as Code (CDK) and utilized various AWS services (EC2, S3, Cognito, etc.), along with Docker.
- Implemented IAM to create users and groups, assigning policies for secure access management.
- Involved in designing and developing S3, RDS, ELB, SQS, and other services of the AWS infrastructure.
- Contributed to performance testing in Python using Locust and conducted TypeScript testing with Jest.
- Designed and implemented streamlined CI/CD workflows using GitHub Actions, reducing debugging time by 15% through timely build failure notifications.

City of Houston – Transportation and Drainage Operations
Information Technology Intern   **June 2019 – Aug 2019**
- Collaborated with application developers to oversee the City Works service ticket app.
- Proposed employee cross-training to executive management as an efficiency-boosting solution for staff shortages – Achieved a 50% increase in productivity within specific teams.
- Participated in numerous interdepartmental team-building activities.
- Successfully restructured communication flow, leading to a 10% reduction in paperwork.

Skills
Programming: C++, JavaScript, Python, SQL, React, CSS, SASS
Technologies: AWS, AWS CDK, Git, Linux, Node.js, Docker, MongoDB, ArcMap, QuickBooks, Azure DevOps
Certifications: Microsoft Word Specialist, Microsoft PowerPoint, Corporate Entrepreneurship
Communication: English, Urdu, Arabic, Hindi

Leadership and Activities
Institute of Electrical and Electronics Engineers | *President*   **Aug 2021- May 2022**
- Expanded tutoring services and developed a year-round tutoring program for middle and high schools.
- Hosted guest speaker events and workshops covering technology and career development.

Coding Cave | *Co-founder and President*   **Mar 2020 – May 2022**
- Organized a team of tutors that served exclusively online during quarantine.
- Hosted social events for peer networking to stay connected during COVID-19.

Coders Unite | *Founder and President*   **April 2021 – May 2022**
- Hosted coding competitions among members.

Management Information Systems Student Organization | *Member*   **June 2020 – present**
Cougar CS | *Member*   **Oct 2019 – present**