Muhammad M. Aslam
Full-stack Developer/Analyst

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Education
University of Houston
Bachelor of Science in **Computer Science**   Major GPA 3.7, Cumulative GPA: 3.51   **Aug 2019 - May 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**
- 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.
- Implemented the Microsoft Power Platform Power BI, Power Apps, Power Automate, etc. This resulted in accelerated, maintainable, automated, and scalable apps, contributing to a 25% boost in productivity.
- Interpreted complex engineering documentation, survey sketches, and other technical documents essential for daily tasks.
- Utilized Python data extraction to collect over 10,000 city asset locations for the Smart City project.
- Coordinated the SCADA project, identified 15 high-risk flooding areas, and mapped 150 water facilities.

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 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 tickets app.
- Proposed employee cross-training to executive management as an efficiency-boosting solution for staff shortage – 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 serviced over 100 students.
- Hosted social events for peer networking.

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**