Muhammad M. Aslam

Full-stack Developer/Analyst

📞 (832)-710-1867 | ✉ Muhammadtai1292@hotmail.com | 💻 personal-site | 🔗 LinkedIn | Houston, Tx

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 over 3000 gravity mains, off-road ditches, culverts, etc. for Mayor Sylvester Turner's Pavement Project.
- Interpreted complex engineering documentation, surveyed sketches, and other technical documents necessary to conduct daily tasks.
- Collected over 10,000 city asset locations through Python data extraction for the Smart City project.
- Coordinated the SCADA project, identified 15 high-risk flooding areas, and mapped 150 water facilities.
- Introduced Microsoft Power Apps for accelerated, maintainable, and scalable apps, boosting 25% productivity.

Principal Financial Group

Software Engineering Intern   **May 2022 – Aug 2022**
- Acquired a working 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 to each group for secure access management.
- Involved in designing and developing S3, RDS, ELB, SQS and other services of AWS infrastructure.
- Contributed to performance testing Python using Locust and tested TypeScript with Jest.
- Designed and implemented efficient CI/CD workflows using GitHub Actions, significantly 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 management of service tickets through City Works.
- Presented Employee Cross Training as an efficiency-boosting solution to Executive Management, resulting in a remarkable 50% increase in productivity within specific teams.
- Actively participated in numerous interdepartmental team-building activities.
- Successfully restructured communication flow, leading to a 10% reduction in paperwork.

Skills
Programming: C++, JavaScript, Python, SQL, 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**