

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 - 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 part time

Sept 2019 – Present

- Oversaw the mapping and determining 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, mapped 150 water facilities
- Introduced Microsoft Power Apps for accelerated, maintainable and scalable apps boosting productivity by 25%

Principal Financial Group

Software Engineering Intern

May 2022 – Aug 2022

- Gained working knowledge of Infrastructure as code (CDK), AWS services (EC2, S3, Cognito, etc.) and Docker
- Created users and groups using IAM and assigned individual policies to each group.
- Involved in designing and developing S3, RDS, ELB, SQS and other services of AWS infrastructure.
- Supported performance testing with Locust - python and testing typescript with Jest achieving 100% coverage.
- Crafted CI/CD workflows with GitHub actions to notify build failures saving 10% debugging time.

City of Houston – Transportation and Drainage Operations

Information Technology Intern

June 2019 – Aug 2019

- Collaborated with Application developers to manage the service tickets app City Works.
- Proposed *Employee Cross Training* to Executive management as an efficiency boosting solution for the lack of staff – Achieved 50% more productivity within certain teams.
- Participated in dozens of interdepartmental team building activities.
- Restructured communication flow reducing paperwork by 15%.

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 Specialist, Corporate Entrepreneurship

Communication: English, Urdu, Arabic, Hindi

Leadership and Activities

Institute of Electrical and Electronics Engineers | *President*

Aug 2021- May 2022

- Expanded tutoring services, developed a year-round tutoring program targeting middle and high school students,
- 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.
- Prepared members for hackathons.

Management Information Systems Student Organization | *Member*
Cougar CS | *Member*

June 2020 – present
Oct 2019 – present