

Muhammad M. Aslam

Full-stack Developer/Analyst

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Objective

Entry level developer with proficiency in multiple programming languages. Bringing experience with working in scrum environments using innovative techniques.

Education

University of Houston

Bachelor of Science in **Computer Science**

May 2019 - May 2022

Minor: Business Administration and Math

Major GPA 3.7, Cumulative GPA: 3.512,

Coursework: Data Structures, Software Design, Intro to Algorithms, Data Science I, Software Engineer Principles, Database Systems

Experience

Principal Financial Group

Software Engineering Intern

May 2022 – Aug 2022

- Working with AWS services, such as EC2, S3, Lambda, Fargate, CloudWatch, Cognito, etc.
- Created users and groups using IAM and assigned individual policies to each group.
- Worked with AWS CDK (Typescript), Docker, Kubernetes, CI/CD pipelines with GitHub actions.
- Involved in designing and developing S3, RDS, ELB, SQS and other services of AWS infrastructure.
- Assisted with performance testing with Locust (python) and testing typescript with Jest.
- Wrote scripts to automate operations and build failures.

City of Houston – Transportation and Drainage Operations

GIS Analyst Intern

Sept 2019 – May 2022

- Mayor Sylvester Turner's Pavement Project – Oversaw the mapping and determining of water flow for over 2000 gravity mains, off road ditches, culverts, etc.
- Interpreted complex engineering documentation, surveyed sketches, and other technical documents necessary to conduct daily tasks.
- Provide critical support to Civil Engineers in verification of city plans and blueprints.
- Smart City project – Collected city asset locations through python data extraction.
- Coordinated the SCADA project, identified high risk areas affected by tropical storm Imelda, initiated the organization of data entry and mapping for more than 150 water facilities.

Information Technology Intern

June 2019 – Aug 2019

- Assisted Application developers in managing the service tickets app: City works.
- Purposed *Employee Cross Training* to Executive management as an efficiency boosting solution for the lack of staff – Achieved two-folds productivity within certain teams.
- Maintained the documentation of technological services provided within the department.
- Facilitated interdepartmental cohesive teamwork.

Skills

Programming: C++, JavaScript, Python, SQL, HTML, CSS

Technologies: Git, Linux, Node.js, AWS, Docker, MongoDB, ArcMap, QuickBooks, Atrex, Azure DevOps, ARM, Keil

Certifications: Microsoft Word Specialist, Web Development, Supervision and Management - HCC

Frameworks: React.js, Bootstrap, JQuery, Flask

Communication: English Urdu, Arabic, Hindi

Projects

Three Little Cleaners – Full Stack Project

- Created a full-stack website for a Houston based startup company.
- Implemented the MERN stack to meet client's needs of a fully functional reservation system.

Post Office Mail simulation – Full Stack Project

- Simulates a fully functioning post office: Sending/receiving mail, Regional and local admin system, package tracking with tracking ID number, CRUD features, postal store selling stamps, boxes, bags, etc.
- Created with HTML, CSS, JS, PHP and MySQL

Bank Project – C++

- Focused on practicing the implementation of Data Structures.
- General bank features: creating an account, withdrawal, deposit, underlying admin system, etc.

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 now services 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*

June 2020 – present

Cougar CS | *Member*

Oct 2019 - present