

Humaira Tasnim

Work Authorization: US Citizen

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Objective

- Expertise in data integration, automation, statistical analysis, optimizing workflows and driving data-driven decision-making.
- Proficient in BI Tools, SDLC, PLM, and Agile methodologies, with hands-on experience in functional, regression, system, and end-to-end testing. Skilled in CI/CD pipelines, version control (GitHub), and cross-team collaboration (MS Suite).
- Skilled in C++, Java, Python, JavaScript, SQL, NoSQL, and Azure, with experience in backend development, database management, and cloud services.
- Excellent stakeholder communication, technical documentation, and teamwork abilities, ensuring seamless project execution.

Education

Wayne State University – College of Engineering, Detroit, MI
Bachelor of Science in Computer Science

Graduation Date: Dec 2024
GPA: 3.61 out of 4.0

Professional Experience

Software Engineer Co-Op

Denso International America, Southfield, MI

September 2023 – December 2023

- Designed, engineered, and deployed a cloud-driven automated **data transfer system**, eliminating 100% of manual errors and saving engineers 2.5+ hours daily—boosting operational **efficiency by 20%** while ensuring **100% accuracy in data** and unit calculations, enhancing my analytical and critical thinking skills.
- Self-taught and mastered **C#, JavaScript**, and PLM System showcasing exceptional adaptability, problem-solving, and rapid learning to build and integrate the solution seamlessly integrating **CI/CD Pipelines**.
- Actively collaborated with cross-functional teams, managers, and offshore developers through **MS Teams and MS Azure**, fostering clear communication, real-time updates, and teamwork in an **Agile environment**.
- Led weekly progress documentation and reporting through **Microsoft Office Software**, and ensuring transparency, alignment, and project momentum while refining technical writing, and presentation skills.

Quality Assurance Intern

Toyota Gosei LTD. CO., Troy, MI

May 2023- August 2023

- Engineered an advanced **data integration system** that slashed manual revision time by 15+ hours daily, seamlessly consolidating data from **100+ OEM MS Excel reports** into a single, high-accuracy file.
- Developed **VBA-driven automated data pipeline** in Excel, MS Access, and SQL, extracting and structuring complex datasets with zero data loss—eliminating tedious manual work.
- Developed a high-performance **data warehousing in SQL & VBA**, reducing data retrieval latency by 50% and enabling real-time analytics across 100+ datasets with seamless SQL integration.
- Built a high-performance automation pipeline, **integrating data-cleaning** algorithms and rigorous code testing to ensure **100% data integrity** and flawless execution.
- Delivered impactful communication weekly, providing clear documentation and strategic insights using MS Word, PowerPoint, and **data visualization** techniques, ensuring alignment across team.

Substitute Teacher- Edustaff

September 2024- Present

- Led classroom management, fostering a structured and efficient learning environment that maximized student engagement.
- Effectively communicated complex ideas to students, enhancing collaboration and knowledge sharing.
- Mentored students in critical thinking, promoting logical problem-solving and analytical skills.
- Adapted quickly to diverse classroom environments, demonstrating problem-solving and resilience in fast-paced settings.

Computer Science Projects

Project manager in 2D- 3D Interior Design App – using **HTML, CSS, JavaScript, Java and GitHub**

Sep 2023- Dec 2023

- Managed team of 5, ensuring smooth collaboration and efficient task delegation through Version Control- GitHub.
- Utilized **version control- GitHub**, implemented Agile Methodology, and integrated unit testing for reliable code.
- Collaborated technically, designed 2D drawing tool for:
 - Used NX-12 to create CAD Models of different furniture and integrated in the project with team collaboration.
 - Conducted functional unit-testing using Java.

Backend Lead in Voice-To-Song App Development- using *ReactJS, JavaScript, HTML, CSS and Fire store*

- Collaborated with Front-end Lead through GitHub to design responsive user-friendly pages following HCI techniques.
- Ensured smooth communication and problem-solving to solve technical roadblocks while learning new tools.
- Utilized **data-modeling** tools to visualize project to stakeholders.
- Designed Back-end functionalities using Firestore include:
 - Get account verification email upon registering and login restricted until verification.
 - Upload previously saved files from history into the main page for song conversion.
 - Upload converted songs to the public/ save converted songs privately.
 - Implemented “Like-System” by other users, search and sorting catalog.
 - Make accounts private/ public and be able to switch.
 - Delete account, change password and change username.
 - Intensive **data-cleaning** to ensure high running efficiency and reduce app crashes.

- In-Flight Information Display System Analysis- Statistics Project Designed with *Python***

Jan 2024- May 2024

 - Conducted comprehensive statistical analysis to identify root causes of intermittent failures (5% failure rate) in an in-flight entertainment system, focusing on timeouts due to bit transmission errors across Electronic Control Units (ECUs).
 - Utilized multiple linear regression to model relationships between ECU processing times and system timeouts, driving data-driven recommendations.
 - Analyzed large datasets with histograms and box plots to assess supplier performance and system reliability.

- Arithmetic Calculation System- Designed with *Python***

Sep 2021- Dec 2021

 - Adaptive math practice tool, improving **learning accuracy by 95%** for elementary students.
 - Dynamically increases numerical complexity based on difficulty level.
 - Supports Addition, Subtraction, Multiplication, Division, and Mixed problems.
 - Interactive, user-friendly design with seamless navigation and progress tracking.

Professional Skills

- In-Depth knowledge of all the phases of the Software Development Life Cycle (**SDLC**), Product Lifecycle Management (**PLM**), and ARAS Collaborative System.
- Experience writing **test cases** for functional, regression, system, integration, GUI, and end-to-end testing.
- Hands-on experience with **Azure** for **defect tracking, change requests, and reporting**.
- Worked in **Agile environments**, performing testing in each sprint and collaborating with teams.
- Expertise on designing social media apps for song sharing publicly/privately.
- In-depth knowledge of **data integration, data cleaning, managing database** in MySQL and NoSQL (Firestore), and **data modeling**.
- Solid understanding of **Linux** environment and strong knowledge of **shell scripting and file systems**.
- Good communication and interpersonal skills, commitment to teamwork and consistent performance, keen analytical ability with excellent information analysis skills, ability to learn and implement quickly.

Technical Skills and Expertise

Programming & Development: Proficient in C, C++, Java, JavaScript, Python, VBA, and SQL with experience in backend development using Firestore and web-development using HTML, CSS, node.js, and react.js.

Database Management: Skilled in SQL Command-Line, and NoSQL (Firestore) for backend data validation and optimization.

Cloud & Collaboration Tools: Experience with Microsoft Azure, GitHub, and Microsoft Teams for real-time updates, version control, and team collaboration. Proficient in Microsoft Office Software.

Agile & DevOps Practices: Worked in Agile software development environments with experience in CI/CD pipelines, defect tracking, change request tasks.

Communication & Documentation: Strong technical writing and presentation skills, delivering clear documentation, stakeholder communication, and strategic insights using MS Word & PowerPoint.

Operating Systems: IOS, Windows, Unix, Android.

Achievements

Certifications:	
ARAS Collaborative System Development Configuration Solutions	Sep 2023 – Present
Google Data Analytics Certificate (In- Progress)	January 2025- Present