Maisoon A Rahman

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EDUCATION

Case Western Reserve University — Cleveland, OH
BS Computer Science | Minors: Mathematics & Art Studio — August 2021 – May 2025
Relevant Coursework: Data Structures, Algorithms, Data Privacy, Computer Security, Full Stack Web Development, High Performance Computing, Basic Linux Tools & Scripting

TECHNICAL SKILLS

Programming Languages & Frameworks: Python, TypeScript, Java, C#, Flask, Angular, React, .NET, Bash
Databases & Cloud: AWS, Amazon RDS, Docker, SQL Server, MongoDB, Relational & NoSQL Databases, Database Administration, REST API Development
DevOps & Testing: Agile Scrum/Kanban, Test Driven Development, Unit and Integration Testing, Jira, Git Version Control, CI/CD with GitHub Actions
Data & Analytics: Data Modeling, Dashboards, Predictive Modeling, Statistical Analysis

WORK EXPERIENCE

Millennium Information Solution Ltd. — Remote
Frontend Developer Intern — July 2025 – Present
- Owned end-to-end development of the banking app's frontend, modernizing Angular components, building dashboards, and implementing Keycloak auth.
- Delivered features across the full SDLC, from requirements and UI design to testing and production in an agile environment.
- Integrated REST APIs with frontend modules and partnered with backend teams to ensure scalability and reliability.

Federal Reserve Bank of Cleveland — Cleveland, OH
Software Engineer Intern — June 2024 – November 2024
- Optimized UI responsiveness for internal financial tools using .NET, Angular, TypeScript, HTML, and CSS, and streamlined deployments to AWS using Docker.
- Implemented basic CI/CD pipelines using YAML to automate deployments and promote a test-driven development (TDD) workflow.
- Managed tasks and sprints within Azure DevOps, collaborating in daily standups and sprint planning sessions to ensure on-time delivery.

SPiDLab, Case Western Reserve University — Cleveland, OH
Backend Developer — May 2023 – May 2024
- Designed and implemented the backend of a secure genomics research platform using Flask and MongoDB, integrating it with a React frontend, ensuring seamless API communication for an IRB compliant genomics website for researchers.
- Led weekly team syncs and coordinated Kanban boards to track progress and deliverables.

Cleveland Clinic — Cleveland, OH
Research Assistant & Data Analyst — May 2023 – Oct 2023
- Analyzed biomedical data developing predictive models for deep brain stimulation patient care using Python and MATLAB.
- Created dashboards and reports to communicate statistical findings for ongoing clinical trials using Microsoft Excel.

PROJECTS

Biological Clock Ensemble using Kalman Filtering | Python
Built biometric data pipelines and applied Kalman Filtering to model circadian rhythms.

Melody Mapper | Python, HPC, NLP
Developed an NLP model to analyze song lyrics and deployed it on a high-performance cluster for large-scale theme prediction.

Paw-Modoro Timer | React, Express, JavaScript, Amazon RDS
Designed AWS RDS schema, implemented backend logic with REST APIs, and integrated automated test cases to enhance functionality and user experience in a gamified productivity app.

Nap Quest | Unity, C#, Procreate
Published Unity game, serving as product manager and developer, writing test cases and incorporating playtesting feedback to improve user experience and engagement.

LEADERSHIP & ACTIVITES

Systers Bangladesh, *Leadership* — January 2025 – Present
Organized community tech talks and digital outreach to expand engagement for Bangladeshi women in technology.

LUX CWRU's Yearbook, *Director of PR* — August 2024 – July 2025
Led branding and outreach strategy, designing campaigns informed by engagement analytics.

HackCWRU, *Director of PR* — January 2023 – May 2024
Directed social strategy, marketing, sponsor outreach, and campaigns that boosted hackathon participation and visibility.