AYESHA ARSHAD

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EDUCATION & EXTRACURRICULAR ACTIVITIES

Bachelor of Engineering: Electrical Engineering | McMaster University | Hamilton, ON   **2020-2024**

Project Developer | McMaster Makers   **June 2021 – June 2022**

- Led a beginner friendly **React Native** workshop at DeltaHacks 8 to teach attendees a new technology.

Supportive Relations Executive | DeltaHacks   **July 2021 – January 2023**

- Recruited 30 mentors and judges for McMaster's largest hackathon with over 500 attendees in-person.
- Participated as a judge and evaluated 27 projects for the Best Productivity Hack category.

VP Supportive Relations | DeltaHacks X   **July 2023 – Present**

EXPERIENCE

Software Engineering Intern | Microsoft | Mountain View, CA   **May 2023 – August 2023**

- Built an API designed for on-call engineers to help assess the criticality of customer tickets for service downtime, optimizing incident response by **40%**.
- Collaborated closely with PMs to ensure seamless alignment between API implementation and changing specifications.
- Designed and implemented the API with the **ASP.Net** framework and **C#**, deployed in **Azure**.
- Integrated **Telemetry** to monitor API performance and latency.
- Implemented **MSTest** and **Moq** for thorough API unit testing, enhancing code quality and reliability.
- Developed a **Blazor** web app that displays the criticality of an on-call engineer's customer tickets using the API.
- Proactively added a component for user engagement to enhance the web app's functionality, exceeding MVP expectations.

Explore Intern | Microsoft | Redmond, WA   **June 2022 – September 2022**

- Built a questionnaire widget for the MSN Money Team that provides users with personalized financial recommendations with **React**, **TypeScript** and APIs.
- Created **Telemetry** dashboards to collect metrics and monitor user engagement of the project while in flight.
- Flighted the project to 5% of users, about 1.25M daily active users and integrated the project into the MSN Money codebase.
- Took initiative to enhance the performance of an MSN Money feature resulting in **30%** improvement in performance.
- Applied the Software Development Life Cycle and implemented feedback from users.
- Composed a competitor analysis and project specification during the Product Management phase of the project.

Production Engineering Fellow | Major League Hacking   **June 2021 – August 2021**

- Built, containerized, and deployed a scalable Flask web app integrated with a **PostgreSQL** database on **AWS EC2 instance**.
- Set up **CI/CD pipeline** for the website through Github Actions for automated testing and deployment.
- Configured Linux systems and infrastructures.

SKILLS

- Languages: Python, Java, JavaScript, TypeScript, C, C++, C#
- Technologies: HTML, CSS, React Native, React, Flask, Docker, PostgreSQL, AWS, Firebase, MATLAB, Android Studio, Linux, MySQL, Figma, ASP.NET, KQL, Blazor, Azure, MSTest
- Communication: French, English

PROJECTS

StreetEats   **August 2021**

- Built a **Flask** webapp with a **Python backend** that suggests restaurants based off user location using an API and allows users to login/register with a **PostgreSQL** database.
- Allows users to add/delete restaurants to user created lists.
- Deployed on an **AWS EC2 instance** with an **NginX reverse proxy.**
- Implemented **CI/CD** pipeline to allow automated testing and deployment, **cAdvisor** for monitoring, and **Docker** for containerization.