SALMA BEGUM TAMANNA

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PROFESSIONAL SUMMARY

Software engineer with 5+ years of experience in developing scalable software and optimizing performance. Skilled in C#,.NET, & Node.js, with a proven ability to adopt & implement new technologies to meet project needs.

WORK EXPERIENCE

Software Engineering Researcher   2022-2024

Data Intensive Software Analytics (DISA) Lab, Calgary, AB & IBM Canada

Tools: NodeJs, Javascript, Typescript, SQLite, REST, LLM, NLP, Python, Django

- Launched an AI-assisted scalable Chrome extension to classify issue report information, improving accuracy by 11-13% and boosting developer productivity by streamlining issue exploration.
- Developed an AI engine to reduce LLM hallucinations in technical reports, increasing response accuracy by 30.3%.
- Collaborated with IBM to gather requirements, brainstorm, and ensure timely delivery through regular follow-ups.

Senior Software Engineer   2019-2022

Samsung R&D Institute Bangladesh, Dhaka

Tools: C#, UWP, .Net, XAML, CSS, Jenkins, Perforce, Git, C++

- Led full-stack development of the painting module in the Samsung Notes Windows app, enhancing functionality and user experience and ensuring the component was the most bug-free and stable part of the application.
- Optimized app performance by resolving memory leaks, improving resource usage, and debugging, resulting in faster load times and smoother operation, even during background syncing.
- Collaborated with cross-functional teams (UX designers, testers, managers) to improve operational efficiency, mentored junior engineers, and conducted code reviews within Agile frameworks.

EDUCATION

MSc | Software Engineering | University of Calgary   **2022-2024**

BSc | Computer Science and Engineering | Bangladesh University of Engineering and Technology   **2014-2018**

SKILLS

Languages: C#, JavaScript/TypeScript, Java, Python, HTML, CSS

Databases: MySQL, MongoDB, SQLite

Frameworks: .NET, Node.js, React, Spring, TensorFlow

Tools: Git, Docker, Perforce

PROJECTS

Information Summarization for Issue Report Exploration | Django, NodeJs, Typescript, JavaScript, SQLite   **2023**

Car Shop E-Commerce Platform | C#, ASP.NET, SQL Server   **2022**

Story Sharing Website | Java, Spring MVC, Oracle Database   **2018**

AWARD

IBM CAS Project of the year | Intelligent Issue Analytics Assistant for IBM Runtime System   **2024**

PUBLICATION

ICSE 2025 | ChatGPT Inaccuracy Mitigation during Technical Report Understanding