

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. Open to relocate.

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% and published the result in a top tier conference (ICSE 2025) in SE.
- Collaborated with IBM to gather requirements, brainstorm, and ensure timely delivery through regular follow-up and awarded "IBM CAS Project of the year 2024" for the contribution.

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, HTML, CSS, Python

Databases: MySQL, SQL Server, SQLite, MongoDB

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

Tools: Git, Visual Studio, Docker, Perforce

PROJECTS

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

2023

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

2022

Story Sharing Website | Java, Spring MVC, Oracle Database

2018