

Rumman Ali

Location: Windsor, ON

[LinkedIn](#) | [GitHub](#)

Email: ali5i@uwindsor.ca | Mobile: (647) 676-7668

Detail-oriented and **results-driven** Software Engineer and Data Scientist with **1.5+ years of experience** in software development, machine learning, and data analysis. Skilled in **Python, Java, and web development frameworks**, with a focus on leveraging **machine learning models** to drive insightful decision-making. Proficient in working within **Agile environments**, collaborating with **cross-functional teams** to deliver high-quality solutions. Passionate about enhancing software systems, particularly in the context of **issue resolution, collaboration networks, and predictive analytics**.

HIGHLIGHT OF QUALIFICATIONS

- Extensive experience in **scalable software solutions** using **.NET Core, REST APIs, Ajax, and Agile/Scrum** methodologies. Strong background in **data analysis** and **predictive modeling** with techniques like **Logistic Regression, Random Forest, and XGBoost**.
- Expertise in **designing models** for **issue resolution prediction** in GitHub repositories, and **collaboration network analysis**. Skilled in **managing large datasets** and performing **exploratory data analysis (EDA)** to derive actionable insights for both **software development** and **research**.
- Committed to staying up to date with **emerging tools and technologies**. Known for strong **problem-solving, critical thinking**, and excellent **teamwork skills**, collaborating with **academic researchers, industry professionals, and project stakeholders** for successful outcomes.

TECHNICAL SKILLS

Programming Languages	: Python, JavaScript, PHP, HTML, CSS, C#, C, C++
CI/CD Tools	: Azure DevOps,
Web Development	: Django, Node.JS, REACT, ASP.NET
Query Languages	: MSSQL, MySQL
Version Control System Tools	: Git with Azure DevOPS, SourceTree, DiffMerge, GitHub
Project Management Tools	: Jira, Confluence
Other Technologies	: Docker, Postman

WORK EXPERIENCES

Graduate Research Assistant <i>University of Windsor</i>	May 2023 – Present <i>Windsor, ON, Canada</i>
<ul style="list-style-type: none">• Analyzed the use of 'Help Wanted' (HW) labels on GitHub, applying logistic regression to identify factors influencing the resolution of HW Issues (HWIs) and fostering long-term developer engagement.• Developed predictive models, including Random Forest, XGBoost, and LightGBM (LGBM), to classify HWIs based on critical factors, enhancing issue resolution efficiency and contributor retention.• Investigated the reasons behind 'Wontfix' labels on GitHub and built predictive models (Decision Trees, Random Forest, XGBoost, and Ensemble learning) to predict potential Wontfix issues early in the software development lifecycle.• Achieved a 20% increase in Wontfix detection accuracy and a 5% improvement in code review prediction accuracy, contributing to improved project management and developer productivity.	
Graduate Teaching Assistant <i>University of Windsor</i>	May 2023 – Present <i>Windsor, ON, Canada</i>
<ul style="list-style-type: none">• Conducted viva exams and assessed student knowledge in Algorithms and web development using Django, covering topics such as HTML, CSS, and web frameworks.• Held office hours to provide guidance on course materials, assignments, and labs, with a focus on Algorithms and Django development.• Addressed student queries, clarified technical concepts, and supported learning outcomes for undergraduate and graduate students.	
Software Engineer <i>Enosis Solutions</i>	Dec 2021 – April 2023 <i>Dhaka, Bangladesh</i>
<ul style="list-style-type: none">• Developed and maintained enterprise-level software using ASP.NET Core, adhering to Onion Architecture and SOLID principles.	

- Migrated legacy projects from **VB.NET** to **ASP.NET Core 6**, ensuring seamless integration and performance optimization.
- Designed and implemented **REST APIs** and **Ajax** for scalable application functionality.
- Analyzed, estimated, and resolved tasks through **Jira**, working in **Agile-Scrum** environments.
- Utilized a wide range of tools and technologies, including **MS-SQL 2016**, **HTML**, **CSS**, **jQuery**, **C#**, **JavaScript**, **Git**, **Azure DevOps Server**, **Docker** and **Agile methodologies**.

KEY PROJECTS

Digital Logic Design Simulator

Source Code

- Developed a Java-based digital logic simulator with a user-friendly GUI, enabling circuit design, evaluation, and debugging using basic logic gates.

Technologies Used: Java

Plant and Manure Online Shop Website

Source Code

- Developed a C#-based online shop for plants and manure, featuring product listings, cart management, seamless checkout, real-time availability tracking, admin panel, and user review system.

Technologies Used: C#, ASP.NET, SQL Server, HTML, CSS

Portfolio Website

Source Code

- Built a portfolio website using React, HTML, and CSS, showcasing my skills, projects, and achievements with a responsive and interactive design.

Technologies Used: React, HTML, CSS

EDUCATION

Master of Computer Science University of Windsor	May 2023 – Jan 2025 Windsor, ON, Canada
Bachelor of Science in Computer Science and Engineering Ahsanullah University of Science and Technology	Nov 2015 – Jan 2020 Dhaka, Bangladesh

CERTIFICATIONS AND ACHIEVEMENTS

- **SQL (Advanced) Certificate** – HackerRank (Issued Aug 2024)
- **Software Engineer Certificate** – HackerRank (Issued Apr 2024)
- **Rest API (Intermediate) Certificate** – HackerRank (Issued Dec 2023)
- **Problem Solving (Intermediate) Certificate** – HackerRank (Issued Dec 2023)
- **Computer Science Graduate Scholarship**, University of Windsor (Nov 2023)
- **Master's International Entrance Scholarship (thesis/major paper stream)**, University of Windsor (May 2023)
- **Deans List Honour for academic excellence**, Ahsanullah University of Science and Technology (Feb 2020)
- **Champion in Intra AUST Programming Contest**, Ahsanullah University of Science and Technology (Nov 2017)