Rumman Ali

Location: Windsor, ON

Portfolio | LinkedIn | GitHub

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Detail-oriented and **results-driven** Software Engineer and Data Scientist with **1.5+ years of experience** in software development and **1 year of experience** in 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 May 2023 – Present

University of Windsor *Windsor, ON, Canada*

- 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 May 2023 – Present

University of Windsor *Windsor, ON, Canada*

- 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 Dec 2021 – April 2023

Enosis Solutions *Dhaka, Bangladesh*

- 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 May 2023 – Jan 2025

University of Windsor Windsor, ON, Canada

Bachelor of Science in Computer Science and Engineering Nov 2015 – Jan 2020

Ahsanullah University of Science and Technology 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)