Rumman Ali

Location: Windsor, ON

Portfolio | LinkedIn | GitHub

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Detail-oriented and results-driven Software Engineer and Data Scientist with **2.5+ years of experience** in software development and in machine learning, and data analysis. Skilled in **Python, C#, 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.

TECHNICAL SKILLS

Programming Languages	: Python, JavaScript, PHP, HTML, CSS, C#, C, C++
CI/CD Tools	: AWS, Azure DevOps
Web Development	: Django, Node.JS, REACT, ASP.NET, Ajax, JQuery
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.

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**, resulting in an estimated **38% improvement in application performance**, as measured through response times and resource utilization benchmarks.

- 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, Swing

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, MSSQL, HTML, CSS

Online Practice Exam   Source Code

- Developed an online examination website enabling users to register, participate in timed MCQ quizzes, track performance, and analyze results, with admin controls for question management and time configuration.

Technologies Used: HTML, CSS, JavaScript, Bootstrap, PHP, MySQL

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)
- **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)