Samiha Fansur

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EDUCATION

The University of Sheffield - BSc Computer Science with a Year in Industry   *Sept 2020 - Present*
- First Class Honours student entering my final year.
- Notable modules: Software Hut (92%), Introduction to Software Engineering (91%), Devices and Networks (86%), Web and Internet Technology (91%), Functional Programming (80%), Java Programming (83%), Systems Design & Security (78%), Text Processing, 3D Computer Graphics, Cyber Security, Internet of Things, Software Reengineering, Software Testing and Analysis
  <u>Dissertation</u>: Gamification of Online Teamwork for Software Engineering projects
  Placement Year: South Yorkshire Mayoral Combined Authority (**SYMCA**)

Merryland International School - A Levels   *Sept 2018 - Jun 2020*
- Achieved **AABB** at A Levels in Mathematics, Physics, Chemistry, Information Technology

EXPERIENCE

South Yorkshire Mayoral Combined Authority - IT Development Placement Student   *July 2022 – July 2023*
- Led the comprehensive development and implementation of a new, robust Flexi system to cater to evolving user needs.
- Contributed significantly to the TSY site upgrade and Azure server migration, reinforcing system stability.
- Spearheaded a complete redesign of MyTSY, integrating consolidated customer analytics for better user insights.
- Successfully upgraded the Flexi system, resulting in marked improvements in performance and expanded functionality.
- Worked collaboratively with the team to promptly identify and resolve bugs across different projects.
- Streamlined processes for CRM user setup and enhanced the TSY admin interface, making daily tasks more efficient.
- Developed detailed Power BI reports, presenting actionable insights during departmental meetings.
- Facilitated efficient deployment of website releases, ensuring compatibility and optimal performance.
- Maintained legacy code for software and systems, ensuring their continued functionality and support.
- **Technologies**: C#, .NET Framework, ASP.NET, ASP, jQuery, Azure, SQL, HTML, CSS, JavaScript, React, MS Power BI.

PROJECTS

Online Extenuating Circumstances Form (ECF) System   *Ruby on Rails, MySQL, HTML, JavaScript, React, RSpec, GitLab, Agile*
- Identified a need for a system to manage extenuating circumstances in a flexible workplace, I led a team of engineering students to create an MVC Ruby on Rails-based system.
- Created a meaningful and challenging project with the end goal of replacing the manual system to make the system easier.
- Started from beginning (user-requirements) to end (system and user testing), solving any obstacles encountered and implementing all features including push goals and extra features requested by the client.
- Successfully developed the system for the University of Sheffield, making the process of creating, storing and dealing with ECFs easier and more streamlined for users.

Flexi System - Timesheet System   *C#, SQL, JavaScript, Database Management, .NET, Web Development, Git*
- Demonstrated leadership and technical prowess by leading the development of the Flexi system, focusing on modernization and efficiency while obeying the organisations' cyber essentials policy.
- Engaged across departments for requirements gathering, efficient task distribution, and project planning.
- Highlighted enhancements include the design of an optimized SQL database in 3NF, maintainable code files and the introduction of a user-friendly interface.
- Used interpersonal and communication skills to present the new system to the organization which successfully reduced IT workloads and improved system efficiency.

Mentor-Mentee System   *Ruby, HTML, CSS, SQLite3, MySQL, Git, Agile Development*
- Identified a need for a streamlined platform to connect university mentees with mentors.
- Developed a web application named the Mentor-Mentee Matching System. Leveraged Ruby on Rails, HTML, CSS, and SQLite3 to create an intuitive interface and efficient matching algorithms.
- Facilitated easier, more efficient mentor-mentee connections, enhancing students' academic journeys.

SKILLS

- **Programming Languages**: Java, Python, C#, Haskell, SQL, JavaScript, TypeScript, Ruby on Rails, PostgreSQL, C++, Bootstrap, HTML, CSS
- **Frameworks and Libraries**: Numpy, Scikit-learn, Pandas, .NET, Matplotlib, ReactJS, Junit, jQuery, XML
- **Software Development**: Git, Design Patterns, Agile Development, Linux, Azure, OOP, DevOps, AWS Cloud
- **Languages**: English (Fluent), Urdu (Fluent), Hindi (Fluent Speaking), Arabic (Intermediate)

Awards & Extracurriculars

- **AWS Certified Cloud Practitioner**: Earned certification highlighting comprehensive knowledge of AWS cloud principles, architecture, and best practices. Demonstrates proficiency in understanding core AWS services, applications, security, and cloud economics.   **(2023)**
- **Program Software Hut Prize (Client)- The University of Sheffield:** This prize is awarded annually to a student in recognition of software development for a real-world client to develop the most effective software, following an agile development process within a team in close collaboration with the client.   **(2022)**
- **Global Engineering Challenge: Best Communicated Solution Award - University of Sheffield:** This is awarded to one team per project for researching and presenting a cost efficient and effective solution to the EWB board members.   **(2021)**
- **Enactus Team Lead – Enactus Sheffield:** Led a group of students to successfully deliver the project. I was also responsible for the activities of a community support project, developing management and team-building skills in addition to enterprise.   **(2021)**