

# 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%)

**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), French (Beginner)

## 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)
- **Certificate of Achievement – Engineers without Borders Sheffield:** This is awarded to team members of the winning team for outstanding performance in the EWB Sheffield's annual designathon 2021, focused on access to clean water in Papua New Guinea. (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)