

# SAFA FATIMA, MSc

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## WORK EXPERIENCE

### Red Buffer - Software Engineer

Jan 2020 - Aug 2022

- **Developed High-Performance Applications:** Utilized NodeJS and ReactJS to create and optimize applications, enhancing user experience and system performance.
- **Database Engineering:** Designed and optimized database functions, ensuring data integrity and efficient retrieval.
- **Agile Methodologies:** Played an active role in Agile development cycles, contributing to iterative improvements and timely project completions.
- **Client Engagement:** Maintained strong client relationships, translating client needs into technical solutions and ensuring high satisfaction.

Tech Stack: NodeJS, ReactJS, PostgreSQL

### VisionX - Backend NodeJS Developer

July 2019 - Jan 2020

- **API Development:** Led the development of robust APIs, ensuring seamless integration with various systems.
- **Cloud Services Optimization:** Enhanced application infrastructure using AWS services, improving performance and reliability.
- **Comprehensive Documentation:** Created detailed API documentation to facilitate ease of use and integration for internal and external stakeholders.
- **Code Quality Management:** Ensured high standards of code quality through systematic reviews and refactoring.

Tech Stack: NodeJS, AWS Lambda, MongoDB, PostgreSQL

## EDUCATION

### Brunel University London

2022 - 2023

Master of Science - Digital Service Design

### National University of Science and Technology

2015 - 2019

Bachelor of Engineering - Computer Software Engineering (2015 - 2019)

## PROFESSIONAL SKILL SET

### Programming Languages

Javascript/Typescript, LaTeX

### Backend Stack

NodeJS, Express

### Frontend Stack

ReactJS, HTML & CSS, Redux

### Database

Postgres, MySQL, MongoDB

### DevOps/Tools

Git, AWS

### Data Visualisation

Figma, Tableau

### Others

Unity3D

## POSTGRADUATE THESIS

### Empowering Demographers with User-Centric Design: A High-Fidelity Prototyping for Population Data Visualization

- Designed and developed a high-fidelity web dashboard to improve the usability and effectiveness of population data visualization tools for data-driven decision-making.
- Conducted a comprehensive literature review on dashboard design and usability factors.
- Created an interactive prototype using Figma, incorporating data plots, graphs, and filters.

- Performed heuristic evaluations with Nielsen's 10 Usability Heuristics to measure usability and effectiveness.
- Developed a user-centric prototype that addressed existing solution gaps, enhancing user engagement and data interpretation.
- Implemented intuitive navigation and customizable filters to deliver actionable insights and a user-friendly interface.
- Utilized Figma and advanced data visualization techniques.

## UNDERGRADUATE THESIS

### VR-Based Therapy for Autistic Children

- Developed a C# application using VR to provide interactive therapeutic activities for autistic children.
- Integrated various forms of therapy, including behavior therapy, speech-language therapy, and play-based therapy, into the gameplay.
- Implemented gamification techniques to reward children for successfully completing activities, enhancing engagement and learning outcomes.
- Utilized Unity3D to create immersive models and environments.

## OTHER PROJECT DETAILS

- **Assist Me Plugin | CityMaaS**

Contributed to the development of a JavaScript plugin for CityMaaS, focusing on improving accessibility options for urban mobility solutions. The project aimed at enhancing the user experience, making navigation and interaction more intuitive for all users on any website the plugin is installed on. The plugin is currently live on **Superdrug**, a famous health and beauty retailer within the UK, currently acquired by **A. S. Watson Group**. ([Assist Me | Automated Web Accessibility Solution | CityMaaS](#))

Tech Stack: Javascript, HTML, CSS

- **Meezan Bank | Red Buffer**

Worked on the backend of a micro-financing dashboard and mobile application for Meezan Bank, Pakistan's first Islamic Bank. Client satisfaction, data security and dealing with huge amounts of data in an efficient manner were three of the major concerns for this project, as is with any banking organisation.

Tech Stack: NodeJS, ReactJS, Postgres

- **CreditPer | Red Buffer**

CreditPer is a lending platform that does data-driven decision making and assessment for individuals and small businesses with speed and the ability to entertain. I worked on the backend for CreditPer's Admin dashboard as well as the mobile app. ([CreditPer](#))

- **PackageX | VisionX**

Worked on the dashboard for a cloud-based logistics system for inventory management, fulfillment, shipping, and delivery tracking. I worked as a backend developer, with the focus on debugging and improving the legacy code. I also documented the code in detail to aid future manipulation of the code base. I also had the opportunity to interact with clients such as **WeWork**, **Staples**, and **Emaar** during this time, which helped me greatly with polishing my interpersonal skills. ([PackageX](#))

Tech Stack: NodeJS, ReactJS, Postgres, AWS

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## CERTIFICATIONS

**IBM: Developing Front-End Apps with React** (<https://coursera.org/verify/4ZHPBKVNL44M>)