

# SAHIB BIR SINGH BHATIA

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PORTFOLIO : [HTTPS://SAHIBBIR.GITHUB.IO/](https://sahibbir.github.io/)

## EXPERIENCE

SOFTWARE ENGINEER, CREDERA, UNITED KINGDOM

Apr 2022-Present

**Drive backend development as a key player in the implementation of a sophisticated data migration system for a leading wealth management firm, utilising C# for an efficient console application for their wealth management platform.**

- Spearheaded the establishment of comprehensive logging mechanisms using **C# .Net** and **Entity Framework** for the application, providing valuable insights into system performance and troubleshooting capabilities.
- Implemented and optimised **GitHub Actions** workflows, ensuring streamlined CI/CD processes for the console application.
- Orchestrated infrastructure using **Terraform**, contributing to a robust and scalable system architecture.
- Designed and implemented data pipelines and batch processes in **Azure DevOps**, enhancing data migration efficiency and accuracy.

**Spearheaded the design and implementation of a cutting-edge React-based data visualisation platform for a Fortune 500 Oil and Gas Company, empowering traders with actionable insights in the regulated carbon credits market.**

- Leveraged **TypeScript** to develop intuitive and interactive visualisations, presenting trends in ETS emissions, price estimates, time spreads and more to enable traders to make informed decisions.
- Developed and maintained a robust **C# REST API**, ensuring real-time data access, enhancing the user experience.
- Automated crucial data retrieval and updating tasks with **Python** scripts, reducing manual effort and ensuring a consistently updated database.
- Established scalable data pipelines in **Azure**, facilitating the gathering of data from various third-party APIs for storage in a centralised data warehouse, ensuring data accuracy and reliability.
- Engineered **SQL** database tables and views to facilitate data accessibility for the front-end dashboard, supporting accurate data visualisation and analysis.

## SKILLS

- **Proficient in:** Azure, JavaScript, TypeScript, React, C# .NET, MVC, Entity Framework, Java, Springboot, JFrog, Figma, SQL
- **Experienced with:** Terraform, Git, Power Apps, Swagger, Firebase, TDD, BDD, Testing libraries (Jest, JUnit, Moq), GraphQL
- **Data Engineering:** Python, Azure Data Pipelines
- **Certifications:** HashiCorp Terraform Associate, Dataiku Core Designer Certificate

## EDUCATION

MSC COMPUTER SCIENCE, UNIVERSITY OF LIVERPOOL, UNITED KINGDOM

Jan 2021-Mar 2022

- Achievement: First Class Pass With Distinction

## PROJECTS

### AUTOMATED TESTING FRAMEWORK ML MODEL

- Integrated GPT-4, a large language model, to generate functional **Python** code, specifically tailored for the Pytest package.
- Developed the CI/CD pipeline for the project utilising **Github Action workflows** and **Terraform**.

### E-COMMERCE APPLICATION

- Developed a responsive interface using **Angular**. Integrated **Java** backend with **SpringBoot** and **Stripe Api** for real-time tracking and secure transactions. Implemented **JWT**, **OAuth2** and **OpenID** Connect with **TLS/SSL** Encryption for data security.

### REAL TIME CHAT APPLICATION

- Created a dynamic **React** chat app with **Firebase's** real time database for instant messaging and group creation. Ensured user privacy by utilising Firebase authentication and login.

### EXPENSE TRACKER

- Developed a responsive interface using **React** for efficient expense tracking. Utilised **.NET core** and **SQL** on the backend to seamlessly integrate real-time tracking features, providing immediate and accurate financial insights.

### ROLE BASED AUTHENTICATION SYSTEM

- Engineered a robust authentication system using **React**, **NodeJs** and **Firebase**. Implemented role based access control, defining user roles and permissions to manage and restrict application functionalities.