

# Samuel Morgan

🌐 samuelmorgan.netlify ✉ samlhmorgan@gmail.com in /in/samuel-morgan-dev/ 📞 +44 7956 730699

## Education

---

**University of Manchester**, BSC (HONS) COMPUTER SCIENCE WITH IE September 2021 - July 2025

- **Societies:** UniCS (Sponsor Liaison), Climbing (Gear & Safety), Uni Air Squadron, Skydiving, Data Science

**Bristol Grammar School**, A-LEVELS Sept 2019 – July 2021

- **Grades:** A\*A\*A\* Maths, Physics, Computer Science (CS):
- **Awards:** CS Academic Scholar — Distinction in BEBRAS, Silver in Senior UKMT Maths/ British Physics Olympiad — Competitor in British Informatics Olympiad — Old Bristolian's prize for special merit in CS.
- **Extra Curricular:** 5th in National ISC Climbing. Designed and lead a Python course for year 7 pupils.

## Experience

---

**Couchbase**, PLACEMENT SOFTWARE ENGINEER, MANCHESTER, UK July 2023 - July 2024

- **Collaborated with Product Owners** behind the new Magma Storage engine & Index Service to design sizing models. Developed and integrated the models into the Sizing Calculator's **Flask** backend. allowing for quick sizing of new/ existing customers.
- Leveraged an internal support **API** to develop an **ETL Pipeline**, from Cluster Logs into fields of the Sizing Calculator. Automating a lengthy collection and entry process of customer cluster data previously completed by Solutions Engineers.
- Led the update of the Supportal log processing pipeline, working closely with the support team to define functionality necessary for identifying issues within the new features of a major Couchbase Server release.
- Earned AWS Cloud Practitioner & CD212 NoSQL Data Modeling, Querying, and Analytics certifications

**Great Uni Hack/ Student Hack**, HACKATHON SPONSOR LIAISON April 2022 - July 2024

- Secured **6** sponsors, from initial contact to contract, generating **£30k** to fund UniCS's 2 annual Hackathons.

**Vistair Systems**, SUMMER INTERN, BRISTOL, UK August 2021 - September 2021

- Developed a **React** web app as well as a new **data visualisation** project as part of an **agile software development team** using **Git** and **Jira**.
- Created a script to Analyse key indicators of 200+ airlines, such as fleet complexity + expansion, and recent M&As to **identify target clients** and calculate the **serviceable addressable market** of different regions.
- Earned praise on Vistair's LinkedIn for playing "an **actionable role** in advancing a number of projects"

## Projects

---

**Peak AI X MUDSS Hackathon**, HACKATHON (WINNER)

- Challenged by **Peak AI**, to use data from **FareShare Greater Manchester** to help combat food poverty. Our solution focused on reducing vegetable waste due to expiry in the warehouse. My approach involved predicting future donations in, alongside identifying charities with more capacity in advance. Minimising the time produce spent idle in the warehouse.

**Great Uni Hack '22**, HACKATHON (RUNNER UP - PALANTIR REAL IMPACT)

- Developed an Energy Crisis Management System using the **Palantir Foundry** platform, aiming to reduce the frequency and duration of energy blackouts in India's grid. Implemented GeoJSON to create a live visual heat map, integrated with an alert system to flag over-consuming states. Alerts were then assigned to the corresponding officials. Additionally, leveraged Foundry's Scenarios tools to enable officials to model the impact of operational and policy changes at both national and state levels.

**Stendhall MMORPG**, OPEN SOURCE - CONTRIBUTOR

- Took ownership of a **user reported issue** within a Large **Java** codebase, created a **Junit** test to isolate the incorrect behavior. Located and fixed the bug, getting my PR approved and merged into production.

**Data Science Society Winter Hackathon**, HACKATHON (RUNNER UP)

- Pre-Processed a large dataset containing 89 columns to make all data numeric, **normalised**, and replacing Null values. Built a combined model using **Extreme Gradient Boosting** and **Lasso** to predict the sale price of houses with an **RMSError of 0.1159** based on the test dataset.

**samuelmorgan.netlify.app**, PORTFOLIO SITE

- Designed and developed a personal portfolio site using **HTML**, **CSS** and **JS**. To provide a place to showcase my skills and experience beyond what can fit on a CV.