James Broadhurst

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Education

University of Edinburgh — **Sep 2021 - Jul 2025**
Bsc (Hons) - Computer Science — **Edinburgh, UK**

Skills

Languages: Java, Python, Javascript, C, Haskell, HTML, CSS, SQL
Developer Tools: Figma, Photoshop, Github
Technologies/Frameworks: React.js, React Native MUI, Google Firebase, Tailwind, MongoDB, Spring Boot

Work Experience

S/Library — **Aug 2023 - Present**
Founder and Full Stack developer — **Edinburgh, UK**

- Founded and started developing a web app which aims to sell second hand textbooks on a marketplace type platform.
- Coordinated meetings with clients (students) to receive feedback on what features the app should have.
- Successfully developed high quality prototypes and wireframes with Figma which were then presented to users to generate feedback on design decisions.
- Fully built and deployed the front-end with React and the MUI library, adhering to MUI principles in the process.
- Implemented Google Cloudstore for the back-end (Firestore, Storage and Auth) with CRUD functionality

AsiaWithYou — **Sep 2023 - October 2023**
Tech Consultant — **Edinburgh, UK**

- Spent time thoroughly analyzing the clients website for UI/UX problems and then presented found issues.
- Discussed functionality, systems to be added and scalability of the proposed system.
- Created detailed specification outlining bugs and appropriate fixes as well as an in depth description on the proposed system in order to adequately hand responsibility to the development team.

Delta Electronics — **Jul 2020 - Aug 2020**
Mobile Intern — **Bangkok, Thailand**

- Constructed Android application to read and display data from their air sensor UNO Sense IoT Device
- Setup and organize meetings to acquire feedback, performing live demonstrations with high fidelity prototypes

Side Projects / Relevant Coursework

Golf Companion App + Website (Javascript, Tailwind React, React Native, Firebase, Figma) — **Jan 2024 - Present**

- As part of a large group project creating an assistive putting device, worked on designing and coding a functioning website showcasing the product and a paired mobile application.
- Worked collaboratively producing high fidelity prototypes in Figma before using Tailwind styling in React and React Native to achieve a modern UI.
- Implemented Auth via Firebase to allow users to login with Email/Password authentication.
- Connected to Putting device via API over network to retrieve statistics and present them to users. This was combined with a social system allowing users to add friends and view their statistics in order to 'Gamify' the product.

Olympic Weightlifting REST API (Java, Springboot, MongoDB, HTML) — **Jan 2024 - Jan 2024**

- Cleaned a dataset of olympic weightlifting performance from the Olympics in 2012 to create a MongoDB collection.
- Connected to MongoDB connection with Java Spring boot to create a basic API to retrieve data in a JSON format with custom queries, accessible through a basic HTML page

Airbnb Data Science Project (Python, MatPlotLib, Seaborn, Scipy, GeoPandas) — **Mar 2023 - Apr 2023**

- Scraped and cleaned data into a tidy format on Airbnbs for Edinburgh to investigate areas of interest such as price.
- Used Seaborn, GeoPandas and MatPlotlib libraries for data visualization