

# Matthew Bowler

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Portfolio: [bowlerm.github.io/Portfolio/](https://bowlerm.github.io/Portfolio/)

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## Education

### University of Leeds, September 2022 – Present

Computer Science MEng, BSc – Averaging a first

Relevant Modules:	Results:
Intro to Web Technologies	77/100
Intro to Programming	76/100
Procedural Programming	96/100
Object Oriented Programming	99/100
Programming Project	76/100
Web Application Development	81/100

### Xaverian College, Manchester, 2020 – 2022

A levels: Computer Science – A\*, Maths – A, Further Maths – A

### Audenshaw High School, Manchester, 2014 – 2020

GCSEs: Achieved 1 Grade 9, 5 Grade 8's including Maths and Computer Science, 1 Grade 7 and 2 Grade 6's

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## Technical Skills

Programming Languages: Python (proficient), JavaScript, HTML, CSS,

Web Technologies: REST APIs, Flask, Fast API

Databases: SQL (MySQL, SQLite), NoSQL (MongoDB)

Version Control: Git, GitHub

Other Tools: Docker, Linux/Unix environments, Microsoft Office/Teams

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## Professional Experience

### Backend Developer (Co-Founder) – WebScrapr (*Startup Project*)

August 2024 – Present

- Co-developing a SaaS web scraping platform with a friend, focused on creating an easy-to-use generalised web scraper.
- Implemented the backend infrastructure and REST API using Python framework: FastAPI.
- Integrated MySQL database to manage and store user information, including account details and user generated content.
- Designed an authentication system using JWT for secure API access.
- Collaborating with front-end developer to ensure smooth integration.
- Preparing for platform deployment and beta testing.

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## **Academic and Personal Projects**

### **Discord Study Bot (Personal)**

Developing a Discord bot to help students study/revise within an environment they may be familiar with.

- Built in JavaScript using Node.js and the discord.js module.
- Implemented features such as Flashcard creation and visualization and a remind me/notification feature.
- Integrated MongoDB for the storage of user flashcards.
- Designed a user-friendly command interface for easy interaction within a discord server.

### **Year 2, Group Software Engineering Project (Academic)**

Within a group of 5, developed a web application, following agile principles, that allows users to view journeys they have taken on a map by uploading GPS data to the site.

- Utilized the Python framework Flask to implement the backend architecture, delivering dynamic frontend pages through Jinja templates.
- Used HTML and CSS to create a user-friendly login and register interface.
- Handled the login and register requests in the backend using an SQLite database.
- Integrated and handled Stripe payment processing in the frontend and backend.
- Worked collaboratively with my colleagues setting regular meetings and using kanban boards to monitor progress along with GitHub to collaboratively build the project and store documentation.
- Used Belbin team roles to identify possible conflicts and catch them early.

### **Year 2, Social Media web application (Academic)**

- Utilized the Python framework Flask to implement the backend architecture, delivering dynamic frontend pages through Jinja templates.
- Used SQLite database to store user information and posts.
- Used AJAX to create a like post feature allowing users to like posts without page reloads.
- Deployed the application using PythonAnywhere, integrating continuous deployment via GitLab.

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## **Other work**

### **Bar staff, O2 Apollo, Manchester, July 2022 – September 2022**

- Worked in a fast-paced environment, managing customer orders and handling customer payment.
  - Developed strong teamwork and communication skills by collaborating with colleagues to manage busy shifts.
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