

# Lewis Blackburn

Wakefield, UK

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## Personal Profile

I recently graduated from York St John University with a bachelor's degree in computer science (first-class honours, 2025). I consider myself to be an ambitious, hard-working individual who is passionate about web development. I have real-world experience building websites as a freelance web developer and have completed numerous work placement sessions throughout my time in education and outside education with online courses related to the industry. I am seeking a junior software engineering role where I can develop my personal skills, be surrounded by those who love development as much as I do, and to grow alongside senior developers.

## Education

### York St. John University

BSc (Hons) in Computer Science

York, UK

Sept 2022 - July 2025

- Graduation: 2025
- Expected Classification: First Class Honours
- **Courses:** Programming 01, Maths and Problem Solving, Security Systems and Products, Web Development, Operating Systems, Software Engineering, Systems Programming and Scripting, Database Systems, Computer Networks, Advanced Programming, Professional and Research Practices, Artificial Intelligence, Internet of Things, Data Analytics, Advanced Web Development, and Privacy and Data Protection

### Wakefield College

A-Levels

Margaret St, Wakefield

September 2020 - July 2022

- Computer Science (AQA) - A
- Psychology (AQA) - C
- Mathematics (Edexcel) - D

### Outwood Academy Hemsworth

High School

Wakefield Road, Hemsworth

September 2015 - July 2020

- Computer Science (OCR) - 9
- English Language (Eduqas) - 9
- English Literature (Eduqas) - 8
- Biology (AQA) - 6
- Chemistry (AQA) - 6
- Physics (AQA) - 6
- Mathematics (Edexcel) - 6
- Enterprise (Pearson BTEC) - D2
- Creative iMedia (OCR) - D2

## Work Experience

### Drive2Learn

Freelance Web Developer

45 Innovation Wy, Barnsley S75 1JG

August 2024 - Present

- Designed and developed a professional website for a driving instructor.
- Collaborated with the client to deliver a tailored solution and understand their requirements.
- Responsible for maintaining both the front-end and back-end of the website.
- Implemented features such as file uploads, contact forms, a booking system, dynamic data tables, content ordering, a live content editor, and a custom dashboard for streamlined management.
- Ensured the website was responsive and accessible across all devices.
- Optimised the website for search engines and improved its performance.

### Sainsbury's Local

Retail Assistant

212-214 Fulford Road, YO10 4DX

October 2022 - May 2023

- Strong time management skills by balancing work and study.
- Prioritised tasks effectively in the high-pressure environment of a busy shop.
- Improved communication skills through regular customer interaction.
- Fulfilling online orders which requires attention to detail and ability to work quickly.
- Demonstrated ability to take pride in my work and ensure high standards through stocking shelves, facing up, and maintaining both cleanliness of the shop and its equipment e.g. the floor and Costa machine.

## McDonald's

Crew Member

Snowhill Retail Park, WF1 2UZ

November 2021 - April 2022

- Organising micro-transactions in a fast-paced environment.
- Ability to adapt to various roles within a dynamic environment.
- Collaborating with colleagues in order to process orders efficiently.
- Quick learner, able to pick up new tasks on short notice.
- Demonstrated ability to work under pressure and maintain a positive attitude.
- Often received positive feedback from customers for my friendly and helpful approach.

## University Projects

### Exploring Approaches in Recommendation Systems

York, UK

York St. John University

Feb 2024 - May 2024

- Analysing data from the MovieLens 100K dataset to explore and evaluate the performance of different recommendation systems.
- Implemented content-based, collaborative and hybrid filtering both from scratch and using the Scikit-Learn library.
- Used different algorithms such as K-Nearest Neighbours, TF-IDF, Cosine Similarity and Pearson Correlation.
- Evaluated the different methods using RMSE and MAE metrics.
- Reported finding and results in a detailed report in Jupyter Notebook through comparative analysis to identify the strengths and weaknesses of each approach.

**Technical Skills:** LaTeX, Python, Scikit-Learn, Artificial Intelligence, Jupyter, Data Science, Exploratory Data Analysis, Hyperparameter Tuning

**Soft Skills:** Time Management, Teamwork, Presentation skills, Report writing.

### Petal

York, UK

York St. John University

Feb 2024 - May 2024

- A comprehensive database that brings together information about films, TV shows, books, people, and songs, all in one convenient platform. Just like popular services like TMDb or IMDb, Petal provides a place for users to navigate, create and update their favourite media.
- Experimented with cron jobs and recommendation systems to provide a personalised user experience.
- Explored object-oriented design patterns and principles to create a maintainable and scalable codebase.
- Implemented external API's that integrate with the internal database for importing and exporting data.

**Technical Skills:** TypeScript, CI/CD, Unit Testing, React.js, Prisma ORM, Rate Limit, Two-factor Authentication, HoneyPot, CSRF, Amazon S3, Scalability

### Tweetah

Wakefield, UK

Wakefield College

Jan 2021 - July 2021

- Designed and developed fully-functioning twitter clone.
- I gained knowledge on subjects such as rate limiting, web authentication, databases, and caching, specifically focusing on full-stack development.
- Implemented features such as user authentication, user profiles, tweets, likes, retweets, comments, and follows.

**Technical Skills:** Redis, PostgreSQL, TypeScript, GraphQL, React.js, Apollo GraphQL, PrismaORM, Node.js, Next.js, TypeGraphQL

## Skills

**Programming** TypeScript, C, Python, Rust, Java, PHP, HTML, CSS, SQL, Assembly

**Technical** Linux, Git, Vim, LaTeX, Eclipse, Visual Studio

**Miscellaneous** Touch Typing (140 WPM)

## Achievements

2024 **Microsoft Azure 900 Fundamentals Certification**, Microsoft

York

2023 **Driving License**, DVSA

Wakefield

## Interests

**Rowing** Core member of University boat club, Social Secretary on the committee and have diverse coxswain and water experience.

**Technical Writing** I write descriptive blogs about programming on my personal website.