

Ben Wagstaff

Undergraduate in Mathematics & Computer Science

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Undergraduate in Mathematics & Computer Science at Durham University. Competent in SQL, Javascript, HTML/CSS, p5.js and Python. Experienced in front end development using Node.js, .NET, Docker systems, WebGL and Flask on both AWS servers and Microsoft Azure. Trained in navigating database architecture.

Experience

LCP Work Experience

London and Cambridge Properties - [LCP](#)

2023 Oct. – 2023 Nov.

- Collaborated with LCP's AI team on Databricks, completing project-based tasks that consolidated diverse data sources and deepened my SQL proficiency while introducing me to API integration and data pipelines. Through this experience, I gained practical insight into large-scale database architecture and exposure to Agile workflows in a collaborative environment.
- Developed an Excel VBA template for LCP's credit control team which in less than 500 lines of code automatically processes the entire Credit Control Report sheet: extracts and cleans customer data, organizes entries by lease reference into formatted tables, computes aging buckets, and exports individual PDF statements.

LyricalLearning Website

Azure App Service - www.lyricallanguagelearning.com

2025 March. – 2025 April.

- [My Logbook](#) and [Learner's Guide](#)
- Gained hands-on experience with Agile workflows (Kanban, Git) while developing a C#/.NET web app on Azure. Designed and connected Azure SQL databases to the host system with SQL authentication. Implemented CI/CD pipelines, comprehensive logging, and resolved environment-variable issues for reliable cloud deployment. Designed a normalised relational schema for multilingual lyric storage, performed SQL data transformations, and configured DNS for a custom domain, sharpening my cloud architecture, database design, and full-stack skills.

Collingwood Website Design

Collingwood College, Durham - [CCU](#)

2024 Nov. – 2025 Feb.

- Developed a [Collingwood Christian Union Website](#) with the potential to develop, laying the foundations for an inter-connected College Christian network.
- Set up in Node.js with Argon2 authentication systems and a one-page layout.

Coursera

Stanford - [DeepLearning.AI](#)

2023 Oct. – Oct.

- Certificate Course Parts;
(1) [Machine Learning Specialization](#)
(2) [Unsupervised Learning, Recommenders, Reinforcement Learning](#)
(3) [Advanced Learning Algorithms](#)
(4) [Supervised Machine Learning: Regression and Classification](#)
- Built end-to-end machine learning solutions in Python - using NumPy and scikit-learn for supervised tasks like linear and logistic regression, decision trees, random forests, and boosted trees - alongside TensorFlow neural networks for multi-class classification and deep reinforcement learning; applied best practices to ensure generalisation not just data optimisation; leveraged unsupervised techniques such as clustering and anomaly detection; and developed recommender systems via collaborative filtering and content-based deep learning.

Objective

Seeking to advance my skills and build a strong career with a company that values innovation and creativity. Looking for work experience in the four weeks beginning 14th July.

In progress...

- A Braille system enabling kinesthetic reading and six-key typing through modular word construction.
- Hand-tracked 3D painting leveraging hand size and gesture recognition.

Technical Expertise

Github workflow	<div><div></div></div>
Microsoft Azure	<div><div></div></div>
AWS	<div><div></div></div>
WebGL	<div><div></div></div>

Education

Durham University

2024 - 2027 Joint Honours

B.Sc. in Mathematics & Computer Science

Monkton Senior School

2018 - 2023 Bath

A levels in Further Maths, Maths, Psychology & Music Technology

Achievements

Top 5% in SAT Race

Finished the SAT race among the top 10 out of 246 undergraduates. This entailed building a python DPLL program for Boolean satisfiability problems.