

EDUCATION

Academic Qualifications

Master of Science, Applied Data Science — University of Buckingham

Master of Science, Computer Science — University of Bath

Awarded the Global Leaders Scholarship for academic excellence and outstanding leadership.

Honours Bachelor of Science — University of Bath

In Progress.

Graduated with Distinction

Graduated with 2:1

Professional Qualifications

Level 7 Certificate, Digital and Technology Solutions Specialist

Level 3 Diploma, Networking and Cybersecurity

In Progress.

Awarded by Gateway Qualifications

TECHNICAL SKILLS

Languages: Python, C, C++, JavaScript (ES6+), HTML/CSS, SQL, Bash/Shell, VBA

Frameworks: React, React-Native, Node.js, SCSS (SASS), Pytorch, SpaCy, Scikit-learn, Flask

Developer Tools: Git, Docker, AWS, Jenkins, Jira, Bitbucket, Linux/Unix

CAD/Analytics Tools: PowerBI, Figma, Adobe (Photoshop, Illustrator, Indesign), Autodesk (AutoCAD, Revit, 3DS Max), Unreal Engine

Certifications: AWS Cloud Practitioner, Neo4j Certified Professional, The Complete 2023 Web Developer Bootcamp

RELEVANT EXPERIENCE

Software Engineer

ETAS (Bosch Automotive Service Solutions)

Contributed as member of AI & Data team developing diagnostic insight tools, leveraging a sequential pattern mining ML approach for next-likely vehicle component breakdown predictions, achieving roughly 60% accuracy compared to actual data.

Centralised knowledge of a large, undocumented Azure-based analytics software tool, documenting the full project scope to ARC42 standard, and benefiting 10+ stakeholders through updated maintainability and functionality where required.

Optimised AWS Lambda triggers through deployment of Python-based XML-to-JSON parser to replace legacy pipeline, capable of processing 130 million+ objects in under a day, for higher efficiency integration into OpenSearch.

Manchester, UK

Sep. 2024 – Present

Graduate Data Analyst

KTC (Edibles) Ltd — Supplier & Manufacturer for Food & Oil

Led the migration of Business Insight data to an automated SQL database, eliminating manual processes and streamlining data extraction and delivery by approximately 16 hours weekly—freeing 4+ team members for higher-value tasks.

Enhanced Sales Dashboard through user interface and general feature development including: financial rebate adjustments, contract management, and VBA scripts for end-user input. Currently utilised by 80+ personnel, with controlled user access. 93% reported visible improvements in data management and reporting capabilities through measured surveys.

Optimised data organisation by conducting data modeling, clearing anomalies and duplicates to enhance data quality, and undertaking the creation of a data dictionary for the implementation of a company-wide data lake.

Wolverhampton, UK

Jul. 2023 – Oct. 2023

Data Science Intern

Datern — Data Consultancy & Training Services

Improved data efficiency and accuracy using SQL, Power BI, and Python for strategic insights and accurate predictions through advanced web-scraping and machine learning.

Remote, UK

Jun. 2023 – Jul. 2023

PROJECTS

Early-stage Carbon Observer (ECO) | Python (Scikit-learn, spaCy, NLTK), Flask, Docker, React.js

- ML-based tool to predict embodied carbon from architectural design descriptions during early-stage design processes through an NLP ⇒ Histogram-based Gradient Boosting (HGB) pipeline, scoring 85 on the System Usability Scale (SUS).
- Utilised semantic analysis and named entity recognition (NER) to convert unstructured text into structured features, achieving 100% precision in ranking buildings by carbon impact in test scenarios (despite lower "exact scoring" accuracy).
- Integrated NLP libraries such as Hugging Face Transformers, spaCy, and NLTK for feature extraction and data preprocessing.

Bloom: Gamified Plant Learning Application | JavaScript, React, React-Native

- Led an Agile team of 7 in bi-weekly sprints to develop "Bloom": a cross-platform mobile application combining entertainment with interactive plant-care learning. Tested on 12+ devices without major issues.
- Leveraged weekly end-user feedback loops, achieving an 80% measured increase in satisfaction scores through user-driven improvements in feature clarity and overall UX.
- Achieved 60% next-day user retention through gamified quizzes, achievements, and timed care reminders for goal tracking.