

Orlando Alexander

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EDUCATION

BSc Data Science, University of Bristol (2024 - 2027)

- First-Class Honours, Year 1; top marks in Algorithms & Programming (87%), Matrix Algebra & Linear Models (86%), and Coding & Data Analysis for Scientists (83%).
- Proficient in Python, R, SQL, C, C#, JavaScript, React, Flask, Pandas, NumPy, TensorFlow, AWS, GCP, and GitHub.

A-Levels, Berkhamsted Sixth Form (2017 - 2022)

- A*, A*, A*, A in Physics, Computer Science, Mathematics, and Further Mathematics.
- A* (100%) in EPQ: Designed a flow-optimised hydroelectric energy generator to maximise wastewater head.
- Head Boy: Founded Academic Gala; delivered talks to 1,000+ audience members; campaigned on food waste.

Data Science Bootcamp, Le Wagon (Oct - Dec 2022)

- Intensive 10-week course on Machine Learning, Deep Learning, Data Engineering & Data Analysis.
- Capstone Project: Trained 9 CNN classifiers on 40,000 fashion images with TensorFlow (70–95% accuracy); integrated with ASOS API and KNN similarity model via Scikit-Learn to recommend personalised outfits.

PROFESSIONAL EXPERIENCE

Data Science & Software Lead, 180 Degrees Consulting, Bristol (Sep 2024 - Present)

- Lead 40 data science & software consultants delivering pro-bono projects for 7 global social impact clients.
- Secured strategic industry partnerships with Le Wagon and Accenture for technical training and mentorship.
- **Data Pipeline for Disease Analysis, EcoSwell (Jun - Sep 2025)**
 - Implemented an end-to-end data pipeline consolidating 66,000 entries from 5 years of weather, dengue, census, and expenditure data using Pandas, NumPy, and Selenium, eliminating months of manual work.
 - Used Monte Carlo analysis to forecast dengue outbreaks in Peru, enabling data-driven public health decisions.
- **Resource Management Platform, everyFAMILY (Feb - Apr 2025)**
 - Deployed modern React data management web app with Flask REST API backend (Docker on GCP Cloud Run).
 - Reduced onboarding time by 30%; delivered scalable platform rated 5/5 by client for 'exceeding expectations'.
- **Food Aid Analytics Dashboard, Cirencester Foodbank (Sep - Dec 2024)**
 - Built interactive data visualisation dashboard processing 5,000 food aid voucher referrals across 100 fields using Pandas, NumPy, Matplotlib and Streamlit.
 - Delivered 3 years of insights on regional demand and seasonal trends to enable targeted aid allocation.

Full-Stack Software Engineer, Educatch, London (May 2024 - Present)

- Designed and deployed production-grade React platform with MySQL backend, automating scheduling, invoicing, and attendance analytics for 50+ students.
- Reduced administrative workload by 10 hours/week; became company's most-used tool, supporting expansion.

Junior Software Engineer, VISENSE, Berlin (Feb 2023 - Feb 2024)

- Built machine learning platform with drag-and-drop interface to create video analysis workflows in under 5 mins.
- Deployed for major clients including BMW, ABB, and SIG for real-time manufacturing anomaly detection.

Junior AI Engineer, Connect AI (Jan 2023 - Jan 2024)

- Developed GPT-4o LLM-powered customer support assistant with React frontend for startups including Digital Republic, handling 5,000 messages/month with 24/7 multilingual support.
- Implemented RAG (Retrieval-Augmented Generation) workflows with real-time feedback loops, reducing first-level ticket volume by 20% and improving resolution time by 95%.

Renewable Energy Intern, EcoSwell, Peru (Aug - Sep 2022)

- Developed integrated monitoring system with Python on Raspberry Pi, capturing 10,000+ data points weekly across 8 key data types.
- Designed offline logging system for automated, reliable reporting on UN SDG goals in remote conditions.

Computer Vision Engineer Intern, Inovo Robotics, Guilford (Aug 2021)

- Designed computer vision system for automated pastry decoration, 90% more efficient than manual methods.
- Implemented advanced algorithms including Canny edge detection, Hough transformations, and clustering for path optimisation using OpenCV and mlrose.

INTERESTS

Programming Teacher — Tutored 300+ students in Python, Web Dev, Computer Science and ML at PMT and Spire.

Drama — Performed at Edinburgh Fringe 2024; produced and acted in 15 Bristol DramSoc productions.

Gold Duke of Edinburgh Award — Barista at social enterprise cafe; Grade 6 Cello.