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%).

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.
- 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 Lead, *180 Degrees Consulting, Bristol (Sep 2024 - Present)*
- Lead a team of 40 data science consultants to deliver pro-bono projects for 7 global social impact clients.
- Secured strategic industry partners, including Le Wagon and Accenture, to provide mentorship and training.
- **Data Pipeline for Disease Analysis**, *EcoSwell (Jun - Sep 2025)*
  - Implemented an end-to-end data pipeline consolidating 18,850 entries from 5 years of weather, dengue, census, and expenditure data using Pandas, NumPy, and Selenium.
  - Valued at $15,000 by the client, the project enabled predictive analysis of dengue outbreaks in Piura, Peru.
- **Resource Management Platform**, *everyFAMILY (Feb - Apr 2025)*
  - Created modern React data management web app with Flask backend (Docker on GCP Cloud Run).
  - Reduced onboarding time by 30%; client rated project deliverables 5/5, stating it 'exceeded expectations'.
- **Food Aid Analytics Dashboard**, *Cirencester Foodbank (Sep - Dec 2024)*
  - Built interactive dashboard processing 5,000 records spanning 3 years of food aid voucher referrals across 100 parameters using Pandas, NumPy, Matplotlib and Streamlit.
  - Delivered vital insights on regional demand and seasonal trends to drive targeted aid allocation.

Full-Stack Software Engineer, *Educatch, London (May 2024 - Present)*
- Designed and deployed full-stack, data-driven React platform with MySQL backend, automating scheduling, invoicing, and performance reporting for 50+ tutors, supporting company expansion.
- Saved 10 hours of administrative work weekly and became the organisation's most-used tool.

Junior Software Engineer, *VISENSE, Berlin (Feb 2023 - Feb 2024)*
- Built machine learning platform for real-time manufacturing anomaly detection used by BMW, ABB, and SIG.
- Features drag-and-drop interface to build and simulate complex video analysis workflows in under five minutes.

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.
- Features offline logging and automated digital reporting for UN SDG climate goals.

Computer Vision Intern, *Inovo Robotics (Aug 2021)*
- Designed computer vision system to automate pastry decoration, 90% more efficient than manual methods.
- Implemented Canny edge detection, Hough transformations, and clustering algorithms for path optimisation and precision control using OpenCV and mlrose.

Project Director, *Young Enterprise (Sep 2020 - Apr 2021)*
- Generated £6,000 revenue from 300 international sales in 3 months, using sales data to streamline marketing.
- Led company operations (Excel, Power BI, Trello) and awarded Young Enterprise Journey Award for leadership.

INTERESTS

Programming Teacher
Tutored 300+ students in Python, Web Dev, Computer Science and ML at PMT, Spires, and Code Kids.

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.