

EDUCATION

University of Bath	Sept 2024 — Sept 2025
MSc in Data Science	
Relevant courses: Machine Learning, Statistics, Bayesian Machine Learning, Reinforcement Learning	
King's College London	Sept 2020 — June 2023
BSc in Computer Science and Management	

WORK EXPERIENCE

Software Implementation Engineer	September 2023 — May 2024
Aulysius - monday.com partner	
<ul style="list-style-type: none"><li>Led the integration of Monday.com, Make.com, and Salesforce into client workflows, optimizing data flow and automation.</li><li>Conducted data analysis on client operations, identifying inefficiencies and suggesting process improvements using key metrics.</li><li>Developed custom dashboards and reporting solutions that allow data-driven decision making for clients.</li></ul>	
Machine Learning Research Assistant	June 2023 — September 2023
King's College London	
<ul style="list-style-type: none"><li>Researched new methods to create an intelligent post-training mutation testing tool for deep learning networks.</li><li>Contributed to the implementation of decision tree algorithms aimed at identifying activation patterns for the detection of faulty neurons within deep neural networks, achieving an accuracy score of 0.979.</li><li>Created insightful visualizations of research outcomes, incorporating essential metrics such as mutation killing score, average error rate, and overall accuracy for the evaluated Deep Neural Networks (DNNs). This strategic integration enhanced data comprehension, enabling precise analysis and informed decision-making.</li></ul>	
Computer Science Intern	Sept 2020 — May 2021
Dulwich College Shanghai	
<ul style="list-style-type: none"><li>Led high school computer science classes and provided 1:1 tutoring for select students.</li><li>Created an automatic email distribution system, which is used to automatically send reminders to 500+ students.</li><li>Created a checkout system that is used to borrow and return film equipment from the school.</li></ul>	

PROJECTS

Computer vision tracker for rock climbing technique (MSc Thesis)	[GitHub]
<ul style="list-style-type: none"><li>Developing a computer vision model using MediaPipe pose estimation to extract features such as joint angles, center of mass, and the acceleration of climbers.</li><li>Validating the computer vision model using inertial measurement units (IMUs) by calculating joint angles and center of mass from quaternions representing the spatial orientation of IMU sensors.</li></ul>	
Automated email service	
<ul style="list-style-type: none"><li>Used Python to develop and deploy an efficient email automation service, utilizing data analysis techniques to parse Excel spreadsheets looking for specific users depending on predetermined criteria.</li><li>The email services would send reminders to identified users, streamlining the compliance process and enhancing overall efficiency.</li></ul>	

LEADERSHIP EXPERIENCE

London University Bouldering Event	June 2024 — March 2025
<ul style="list-style-type: none"><li>Organized a four-part climbing competition series open to all UK universities, attracting over 200 participants per event and becoming the largest student-run climbing competition in Southern England.</li><li>Collaborated with climbing gyms to organize venue hire, sponsors for competition prizes, and food vendors to provide snacks and refreshment for each event.</li></ul>	

TECHNICAL SKILLS

Languages	Python, Java
Tools and Frameworks	PyTorch, TensorFlow, MediaPipe, OpenCV, numpy, pandas, SQL, Git, Linux
Communication	English (native), German (native)

EXTRACURRICULARS AND HOBBIES

Duke of Edinburgh award (Gold)  
Outdoor climbing and mountaineering  
Cooking