

Education

University of Edinburgh, AI and Computer Science (BSc Hons)	Sept 2021 – Jun 2025
<ul style="list-style-type: none">Averaging, and on track for a 1st class degreeNotable courses, Algorithms & Data Structures (97%), Machine Learning (80%), Natural Language Processing (83%), Calculus (90%), Linear Algebra (90%), and Discrete Maths & Probability (80%)	
International Baccalaureate Diploma	Sep 2019 – Jun 2021
<ul style="list-style-type: none">Received 42/45 points with 7/7 in Higher Level Maths, Physics, IT, and Business Management	

Experience

The University of Edinburgh, Teaching Support	Sep 2024 – Jun 2025
<ul style="list-style-type: none">Hosted mandatory tutorial sessions for 2nd and 3rd year courses as part of the teaching support teamCourses include: Algorithms and Data Structures, Introduction to Algorithms and Data Structures, and Machine LearningWorked with lecturers and course organisers to develop and deliver course material	
Morgan Stanley, Technology Summer Analyst	June 2024 – Sep 2024
<ul style="list-style-type: none">Used Redis, Java and Spring to create a distributed cache with high availability and low latency, increasing service performance by 20xWorked with a team to develop a reliable and scalable data service, handling millions of requestsSpike tested the service, identifying and fixing bottlenecks to ensure the service could handle peak loads	
InfBase, InfBase Tutor at The University of Edinburgh	Sep 2023 – June 2024
<ul style="list-style-type: none">Hosted help sessions for topics including Algorithms and Data Structures, Data Science and Discrete MathsAssisted 1st and 2nd year students with understanding course material and completing assignments	
Bennu.ai, Contractor - Software Developer & Data Collection	Jan 2023 – Mar 2023
<ul style="list-style-type: none">Developed software to collect thousands of data points for the training of classification modelsIntegrated the software with the company's existing data pipeline, ensuring data integrity and security	

Projects and Activities

Hack the Burgh, The University of Edinburgh's annual hackathon	Mar 2024
<ul style="list-style-type: none">1st place winner in the overall hackathon, as well as "Best use of Cloud Services" awardBuilt a student notes sharing platform with semantic search capabilities using vector embeddings	
Morgan Stanley Hackathon, Code to Give hackathon for CHAS	Oct 2023
<ul style="list-style-type: none">1st place winner of the 2023 Code to Give hackathon hosted by Morgan Stanley GlasgowBuilt a children's story book application which uses eye-tracking to control the user interface	
System Design Project, Clothes drying and folding robotics project	Jan 2024 – May 2024
<ul style="list-style-type: none">Lead a team of 9 to develop an automatic clothes drying and folding solutionDesigned and implemented the software architecture to automatically detect and fold clothesUsed a range of IOT devices to control the system through motors, and sensors	
Battle Stocks, Worked with other Morgan Stanley interns to develop a stock trading simulation game	August 2024
<ul style="list-style-type: none">Developed a server-client architecture to allow multiple users to play the game simultaneouslyImplemented a trading algorithm to simulate the stock market and allow users to trade stocks	

Skills

Spoken Languages:

Tools:

Interests:

Fluent in English and Arabic, intermediate in French

Java, Spring, Scala, Python, Pandas, C/C++, Rust, Go, Bash, Haskell, Typescript, React

Machine Learning, Application and Web Development, Data Science, Low-level programming