

Personal Profile

Passionate software engineer with a strong academic background in AI and Computer Science. Motivated by a passion for problem solving, I am seeking a challenging role to further develop my skills and contribute to innovative ideas.

Skills

Spoken Languages: Fluent in English and Arabic, intermediate in French

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

Education

University of Edinburgh, AI and Computer Science (BSc Hons)

September 2021 – June 2025

- Averaging, and on track for a 1st class degree
- Notable 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

September 2019 – June 2021

- Received 42/45 points with 7/7 in Higher Level Maths, Physics, IT, and Business Management

Experience

Morgan Stanley, Technology Summer Analyst

June 2024 – September 2024

- Developed a caching systems to speed up data retrieval 20 times over a 3 month period
- Worked with a team to develop a reliable and scalable distributed data service, handling millions of requests

InfBase, InfBase Tutoring at The University of Edinburgh

September 2023 – June 2024

- Hosted help sessions for topics including Algorithms and Data Structures, Data Science and Discrete Maths
- Assisted 1st and 2nd year students with understanding course material and completing assignments

Bennu.ai, Contractor - Software Developer & Data Collection

January 2023 – March 2023

- Developed software to collect thousands of data points for the training of classification models
- Integrated the software with the company's existing data pipeline, ensuring data integrity and security

BKUK, Crew Member

September 2022 – September 2023

- Developed strong communication and teamwork skills while working in a fast-paced environment

Tutoring, International Baccalaureate Summer Tutoring

June 2022 – September 2022

- Developed lesson plans and study materials tailored to each student, preparing them for the 2023 exams

Projects and Activities

Hack the Burgh, The University of Edinburgh's annual hackathon

March 2024

- 1st place winner in the overall hackathon, as well as "Best use of Cloud Services" award
- Built a student notes sharing platform with semantic search capabilities using vector embeddings

Morgan Stanley Hackathon, Code to Give hackathon for CHAS

October 2023

- 1st place winner of the 2023 Code to Give hackathon hosted by Morgan Stanley Glasgow
- Built a children's story book application which uses eye-tracking to control the user interface

Hand-Written Digit Classifier, Using Numpy to train a classifier on the MNIST dataset

- Achieved 98% accuracy on a machine learning hand-written digit classifier, written from scratch
- Fine tuned the step and batch sizes, and investigated their effect on training time and accuracy

System Design Project, Lead a team of 9 to develop an automatic clothes drying and folding solution

- Designed and implemented the software architecture to automatically detect and fold clothes
- Used 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

- Developed a server-client architecture to allow multiple users to play the game simultaneously
- Implemented a trading algorithm to simulate the stock market and allow users to trade stocks