

Athena Jassur

Summary

I am a highly motivated and well-rounded Computer Science undergraduate student at the University of Southampton. I am highly analytical, quantitative-minded, critical thinker and problem solver. I am confident, outgoing, and have excellent communication skills. I enjoy interacting with people, and I am equally comfortable working as part of a team or leading one. I have excellent programming skills, and I am proficient in Python, Java, SQL and C, and I have experience working on large data management projects, machine learning and artificial intelligence.

Education

University of Southampton *BSc Computer Science (on course for first class)* 2024–2027

Strong interest in Artificial Intelligence and Foundations of Machine Learning. Forthcoming dissertation specialising in machine learning with neuroimaging.

City of London Freeman's *A Levels* Completed 2024

Subjects: Computer Science (A*), Physics (A*), Mathematics (A), EPQ (A) title: 'Will Quantum Computers be as successful as Classical Computers and/or Supercomputers in the next 50 years?'

Surbiton High School *GCSEs* Completed 2022

Subjects: Mathematics (9), Physics (9), Computer Science (9), Chemistry (9), Biology (9), French (9), German (9), English Language (8), English Literature (8), History (8)

Experience

Barclays Investment Bank *Technology Developer Internship* Canary Wharf, London, UK | June–August 2026

- Using Java and Oracle to develop front-office services supporting equity derivatives for markets pre-trade.
- Researched and presented AWS Bedrock long-term memory strategies for agentic systems.
- Interacted with senior leaders in algorithmic trading, quantitative strategies, and ML engineering.

MFS International (UK) Ltd *Work Experience* London, UK | August 2025

Spent two days shadowing portfolio managers, analysts, and traders, and learning about fixed income investing, including basic concepts of company analysis, security selection and portfolio construction.

King's College London *Foundations of AI Summer School* London, UK | July 2025

A two-week course at King's College London exploring the mathematical foundations and methods of Artificial Intelligence. Worked in a group to research and present solutions to the Travelling Salesman Problem. Evaluated and compared these solutions in an individual report.

CyberFirst Futures *Cyber Security Course* UK | August 2022

A course about the threats of cyber-attacks and combating them, using lectures and exercises.

STFC Online Python Project *Work Experience* UK | July 2022

A course organised by the Science and Technology Facilities Council, where I worked in a team of five on various tasks. Using Python, I completed a model of a proton synchrotron using GUIs.

Skills

Research & Analytical: Data gathering and analysis, from initial data collection through analysis to conclusion.

Bloomberg skills such as BQL, and SRCH to gather, select and analyse fixed income data.

Technical: Python, Java, C, JavaScript & React, HTML & CSS, SQL, Tableau; Functional Programming Languages: Haskell, Promela, Rocq; GenAI: Claude API, Google Gemma Transformer, AWS Bedrock

Computing Skills: Machine Learning, Data Analysis, Computer Vision, LLM, Data Visualisation

Languages: English (Native), German (Beginner), French (Beginner)

Projects

- Explored computer vision through a hand controlled filter adjuster photobooth.
- Experimenting with Google's Gemma Transformer model to build a language-model interface.
- Developing an accessibility-focused notes website with sentence and line highlighting to improve readability