

Mohamed Issa

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EDUCATION

King's College London

London, UK

BSc Computer Science | Target: First Class Honours

Sep. 2026 - Jun. 2030

- Intending to transfer internally to the Year in Industry pathway when the transfer window opens
- Relevant modules: Programming Practice & Applications (Java), Data Structures, Computer Systems, Foundations of Computing, Database Systems
- Member of KCL Tech Society and KCL AI Society; pre-degree preparation included translating 15 algorithmic solutions from Python to Java to build OOP fluency

Access to Higher Education Diploma in Computer Science and Mathematics

London, UK

60 Credits | All 45 graded credits at Distinction (full marks, the highest possible classification) Aug. 2025 - Jul. 2026

- Coursework spanning programming fundamentals, mathematics, and computing theory; primary qualification for KCL Computer Science entry

PROJECTS

eRaadi | Winner, $S4S \times SIT$ Climate Hackathon | USSD/SMS

May 2026

- Won the hackathon with a USSD/SMS service that routes Somali pastoralists to the nearest functional water point during drought, using open water-infrastructure data
- Designed for feature phones with no internet access: herders query well status by text, removing the smartphone and data-connection barrier that excludes most of the target population

CSV-to-Parquet ETL Pipeline | Python, pandas, pytest, Docker

Aug. 2026

- Built a command-line data pipeline ingesting CSV files, validating schemas, applying transforms (whitespace normalisation, date standardisation, deduplication), and writing clean Parquet output
- Wrote a pytest suite covering schema validation, transform correctness, and edge-case handling for malformed real-world CSV data; containerised with Docker for reproducible deployment

TECHNICAL WRITING

mohamedissa.me | ML systems engineering blog

Aug. - Oct. 2026

- *What I learned building a CSV-to-Parquet pipeline*: schema validation edge cases in real-world data and a pandas behaviour I did not expect
- *Translating Python to Java taught me what I did not understand about Python*: five idioms that do not translate and what Java's type system forces you to be explicit about
- *Why I am choosing ML systems engineering before writing a line of production code*: the four resources that shaped the decision and why I picked this specialisation in August

VIRTUAL EXPERIENCE

Software Engineering Virtual Experience

Sep. 2026

Goldman Sachs (Forage)

Online

- Completed a security assessment identifying password hashing weaknesses in a simulated codebase; proposed remediation using bcrypt and documented findings in a professional memo

Software Engineering Virtual Experience

Sep. 2026

JPMorgan Chase (Forage)

Online

- Set up a local development environment, resolved repository issues, and used JPMorgan's Perspective library to build a live financial data feed dashboard

TECHNICAL SKILLS

Languages: Python, Java

Tools: Git, GitHub, Docker, pytest, JetBrains (IntelliJ / PyCharm), Linux (command line)