

# Mohamed Salah

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## PROFESSIONAL SUMMARY

MSc Computer Science candidate with a solid foundation in algorithms, data structures, and clean software design. Passionate about developing efficient, maintainable systems through disciplined coding and collaboration. Experienced in translating technical requirements into robust, well-tested solutions. Seeking a graduate software engineering role to contribute to high-performance, large-scale networking software and continue developing professional expertise.

## CORE SKILLS

**Programming:** Python, Java, C#. Experienced with data structures, algorithms, debugging and performance optimisation.

**Software Engineering:** Object-oriented design, data structures & algorithms, unit testing, version control (Git/GitHub), Agile teamwork, requirements to delivery.

**Networking & Systems:** Exposure to network protocols, concurrency, multithreading and distributed systems concepts.

**Tools:** Visual Studio, GitHub, Power BI, SQL, Excel.

**General:** Stakeholder communication, technical writing, planning & prioritisation.

## PROJECTS

### Experiment W - Two-player cooperative puzzle-adventure (Unity/C#) (2024-2025)

- Designed and implemented modular, event-driven architecture using C#.
- Built AI agent logic through finite-state machines and integrated multi-threaded pathfinding systems.
- Applied version control, profiling and iterative testing to ensure performance and maintainability.
- Demonstrated end-to-end delivery of a complex codebase with consistent performance targets and clear documentation.

## EDUCATION

**Keele University** - MSc Computer Science with Artificial Intelligence (2023-2025), 2:1

**University of Nottingham** - BSc (Hons) Biochemistry (2019-2023)

**University of Birmingham School** - A Levels (2017-2019)

Chemistry (A), Mathematics (B), Biology (B)

**Bournville School** - 10 GCSEs at A\*-C  
(2012-2017)

## CERTIFICATIONS AND PROFESSIONAL DEVELOPMENT

**Google IT Automation with Python** — Coursera (In Progress)

**Scientific Computing with Python** — FreeCodeCamp (In Progress)

## EXPERIENCE

### **Royal Mail – Parcel Driver** (2025-2026 | Birmingham, UK)

- Delivered high-volume parcels across time-critical routes while meeting strict delivery SLAs.
- Used route-planning and handheld tracking systems to ensure accurate, auditable deliveries.
- Maintained compliance with safety, security and data-handling procedures.
- Managed workload independently while adapting to changing routes and priorities.

### **Halfords - Customer Service Advisor** (2023-2024 | Redditch, UK)

- Managed bookings and service tickets using digital systems, improving turnaround accuracy and on-time completion.
- Collaborated across teams to resolve escalations, captured structured notes for repeatability and audit.
- Produced simple data insights to improve throughput and reduce repeat queries.

### **WHS Plastics - Quality Inspector** (2024 | Birmingham, UK)

- Inspected automotive parts against specifications, documented non-conformities and supported corrective actions.
- Worked to targets while maintaining safety and quality standards.

### **Royal Mail - Parcel Sorter** (2021-2022 | Nottingham, UK)

- Accurately sorted high-volume parcels under tight SLAs, maintained attention to detail and process compliance.

### **Kumon - Tuition Teacher** (2020-2021 | Nottingham, UK)

- Taught Maths and English up to GCSE, tailored instruction and provided structured feedback.
- Communicated progress to parents and supported learners of mixed abilities.

## ADDITIONAL

**Languages:** English (fluent), Arabic (fluent), learning Spanish and Norwegian.

**Interests:** Hiking, basketball, football, volleyball, gaming, travel.

**References:** Available on request.