

# Samir Mahmood

☎ +44 7310492356 | @ samirmahmood002@gmail.com | 🔗 LinkedIn | 🐙 GitHub | 🌐 Personal Website

## EDUCATION

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### University of Glasgow

Master of Science in Computing Science

Glasgow, UK

Sep 2025 – Sep 2026 (expected)

### American University of Sharjah

Bachelor of Science in Computer Science

Minor in Data Science

Sharjah, UAE

Aug 2020 – Jun 2024

Won **2nd position amongst 30+ teams** at the College of Engineering Senior Design Projects Competition.

Received **Undergraduate Research Grant** (2023-2024)

Received several **scholarships**: Outstanding Student Scholarship, Shabana & Faizal Endowed Scholarship, Bybit Operational Scholarship.

## PROFESSIONAL EXPERIENCE

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### 7X (Emirates Post Group)

Data Analyst

Dubai, UAE

Jun 2025 – Aug 2025, Internship

- Optimised postal logistics operations using **Python** and **SQL** on the **Snowflake** data platform.
- Developed a route optimiser using the **Google Maps Platform API**, generating optimal routes and accurate ETAs.

### Crescent Petroleum

Software Engineer

Sharjah, UAE

Jun 2024 – Sep 2024, Internship

- Developed a chatbot in **Python** powered by the **Azure OpenAI API**, combining LLM agents to enable **text-to-SQL** and **text-to-graph** capabilities over a **PostgreSQL** database (**RAG**).
- Developed a **Django** based web application for LLM-enabled text summarisation over a **MySQL** database.

### Petrofac

Data Scientist

Sharjah, UAE

Jun 2023 – Aug 2023, Internship

- Built a **RAG** system in **Python** using **LangChain** for intelligent document Q/A with LLaMA 2.
- Developed **Power BI** reports and prepared mobile views for existing reports.
- Participated in a training rotation between different IT verticals (AI/ML, Data Engineering, Business Intelligence), being exposed to **Python**, **Power BI**, **SQL**, and **Azure**.

### CSE Department, American University of Sharjah

Computer Science Grader

Sharjah, UAE

Jan 2023 – May 2023, Part-time

- Graded C++ programming assignments and provided learning feedback to over 60 students as a grader for the course CMP 305: Data Structures and Algorithms.

### ICT & IT Security Department, American University of Sharjah

IT Student Worker

Sharjah, UAE

Aug 2021 – Dec 2021, Part-time

- Provided technical support to students and faculty across 3 buildings under the College of Engineering.
- Performed upgrades and maintenance of software and hardware in technical labs.

## SKILLS

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**Languages:** Python, C++, Java, SQL, HTML/CSS, JavaScript

**Technologies:** Version control (GitHub), Power BI, [Microsoft Certified: Azure Fundamentals](#), Django

## PROJECTS

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### Hierarchical YOLO with Real-Time Text Recognition for UAE Traffic Signs | [GitHub](#) | [Preprint](#)

Graduation Design Team Project

- Lead the integration of the hierarchical object detection (YOLOv8) system with the text recognition (PARSeq) system, developing the real-time pipeline as well as the inference visualisation.
- Annotated images for the development of a novel text, panel, and symbol detection dataset containing over 1000 images of UAE traffic signs.

## Telegram Bot for Astrometric Image Annotation | [GitHub](#)

- Developed a Telegram bot in **Python** that enables users to upload astronomical images and receive annotated outputs with precise astrometric calibration.
- Integrated local processing of images using the astrometry.net suite to determine celestial coordinates, star field overlays, and other metadata.
- Handled asynchronous communication with users, image uploads, and result delivery via the Telegram Bot API, ensuring a smooth and interactive user experience.

## EXTRACURRICULAR ACTIVITIES

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### Astronomy Club

American University of Sharjah

*Vice President*

*Spring 2024*

- Spearheaded the organisation of a successful desert stargazing and barbecue trip for over 150 attendees, in collaboration with 4 other university clubs.
- Led and managed the club and its subcommittees (Events, Media, PR) alongside the President.
- Conducted hiring interviews for various club positions.

### Astronomy Club

American University of Sharjah

*Events Team Member*

*Spring 2023, Fall 2023*

- Planned and executed club events including Club Fair and stargazing nights.

### Music Club

American University of Sharjah

*Treasurer*

*Spring 2023*

- Managed financial affairs and event budgeting for the club, including record-keeping and seeking funding opportunities.
- Assisted the team with event planning and execution.

## Engineering Shadow Program

American University of Sharjah

*Mentor*

*Fall 2022, Spring 2023*

- Selected by the College of Engineering to mentor exceptional high school students, allowing them to experience a day in the life of an AUS engineering student.

### Astronomy Club

American University of Sharjah

*Media/PR Team Member*

*Spring 2021*

- Developed social media strategy and produced social media content for the club's Instagram account.
- Assisted the events team in organising and hosting events.
- Liaised between the club and the wider university community.

## INTERESTS

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Astronomy, Astrophotography, Technology, Guitar, Motorsport, Esports

## LANGUAGES

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English, Hindi/Urdu