Syed, Mohammad Ali Qasim

Github | Codewars | LinkedIn | m.ali.qasim.syed@gmail.com | (+44) 7879827806 (London)

I am a UK national and eligible to work in the UK.

PROFILE

First-class Robotics graduate from the **University of Essex**, consistently placed on the **Dean's List for Academic Excellence.** Skilled programmer and excellent analytical problem-solver with a good command of **C#, C, C++, JavaScript, HTML/CSS, Java,** and **Python**.

Mathematically minded, analytical, and creative problem-solver, team player, quick and eager learner, punctual, responsible, and task-focused.

Passionate about socially impactful work. Strives to create innovative solutions to complex problems and help bring smiles to people's faces. Enjoys cycling, volleyball, and strength training.

WORK EXPERIENCE

Automation Consultant, SaathEase Life Sciences Bhopal (2022 – 2023)
Initiative, People-Skills, Process Automation, Google Workspaces.

Interface with stakeholders at all levels of the business (patients, medical staff and management) to identify requirements and help implement productivity-boosting solutions. Used Google Apps Script and REST APIs to streamline and automate financial recordkeeping. Automated tedious processes which used to take up many hours of employee time.

Team Member, Heavenly Desserts (Restaurant Industry) (2021 – 2022)

Gained experience catering to customers as part of a team. This required discipline, attention to detail, teamwork, and the ability to keep up in a fast-paced environment.

EDUCATION

University of Essex
BEng Robotics - 1st Class Hons (Dean's list 2019-2022)

Relevant Coursework: AI, OOP, Application Programming, Game Programming, Data Structures & Algorithms, Algorithmic Game Theory, Engineering Maths.

SKILLS

- Programming Languages: Java, C#, C++, C, JavaScript, HTML/CSS, Python, MATLAB.
- Robotics & AI: OpenCV in Python and Java, ML Algorithms (Decision Tree, SVM, Regression)
- Principles and Management Technologies: Agile methodology & Scrum (Jira), Git/GitHub, OOP.
- Languages: (Native) English, Urdu, Hindi. (Beginner) Arabic, Japanese.

Projects

Capstone Project: Create User-following Drone (2021 – 2022)
OpenCV, Python, Atlassian Jira, Gitlab, Agile Methodology, Version Control

Programmed a drone to autonomously follow users. [See more!](#)

Sanitation Management System (2020 – 2021)
Java, Jira, Gitlab, Agile Methodology, Version Control, Team Project, Leadership

Created companion app for hygiene tracking sanitiser dispenser system. [See more!](#)

Experimental Setup for Psychology Research (2022)
HTML/CSS, JavaScript, GitHub, Version Control, Cloud Database

Created interactive web-based experimental setup for cognitive psychology research [See more!](#)

Computer Game Programming (2019 – Present)
Java, C++, GitHub, Version Control, Multi-Threading

Designed and programmed graphical and text-based games in various languages. [See more!](#)

Computer Vision (2021)
OpenCV, C++, Python, Linux, Computer Vision, Artificial Intelligence.

Computer vision projects using OpenCV. [See more!](#)

General Coding Projects
Data Structures and Algorithms, AI, Computer Vision,

Many projects I made to learn about and experiment with concepts and technologies. [See more!](#)

Robot Navigation and Mechatronic Design (2020 – 2022)
ROS/ROS2, Gazebo, C++, Linux, MATLAB

ROS/ROS2 in C++, sensor-and-odometry-guided navigation, obstacle-avoidance, SLAM, Gazebo simulation, MATLAB Robotics toolbox, DH parameters, kinematics, transformations. [See more!](#)

Robots in Healthcare: A Scoping Review (2021 – 2022)
Co-authored a paper with NHS doctors to review the application of robotics in clinical settings for Springer-Nature's Current Robotics Reports (2022). [Have a look!](#)

EXTRACURRICULARS & VOLUNTEERING

Local Mosques, Social Counselling (2015 - Current)
I volunteer in community-building and counselling efforts at mosques and Islamic cultural centres to help foster a sense of belonging and community, especially among troubled and disconnected youths. This has helped me develop my communication and oratory skills and the opportunity to work towards change for good.

Eastern Public School, Student Council President (2016 – 2017)
Acted as student and school representative. Lead a team of student leaders to spearhead student welfare initiatives and organise school events, such as the provision of food packages to 600+ impoverished households in the month of Ramadan. This involved surveying the target area to help focus on those most in need, then organising and arranging delivery/distribution of provisions.