

# Qasim Nawaz

Computer Science Student

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qnawaz

qxsim

## Skills

Programming Java | Python | JavaScript | MATLAB | SQL | HTML | CSS | OCaml | C/C++  
Other Git | Arduino | Robotics | Android | iOS | UNIX(macOS/Linux) | Windows | NLP | Agile  
Soft Skills Bilingual (English and Mirpuri) | Communication | Teamwork | Leadership | Time Management

## Education

**The University of Birmingham** (2017 - Present)

*Birmingham, UK*

- BSc Computer Science (Predicted: 2.1)
- A degree with a focus on Artificial Intelligence, Mathematics, Robotics, Data Analytics, High-Level and Low-Level Programming as applied to theoretical and practical Computer Science.
- Modules include Neural Computation, Networks, Intelligent Data Analysis, Human-Computer Interaction, Nature-Inspired Search and Optimisation, and Computer-Aided Verification.

**King Edward VI Aston Grammar School** (2014 - 2017)

*Birmingham, UK*

- A-Levels in Chemistry, Biology and Mathematics, with an AS-Level in Psychology.

**Saltley School and Specialist Science College** (2009 - 2014)

*Birmingham, UK*

- 11 GCSEs with 5A\*/As including English Language (B), Mathematics (A) and Triple Science (A\*AA).
- Senior Prefect.

## Experience

**Capgemini** (July 2018 - September 2018)

*Telford, UK*

Test Analyst | Test & Release Service

- Created testing files using data obtained via analysis of SQL-based relational databases.
- Improved quality of the code-base by conducting E2E testing on numerous modules, exposing bugs earlier in the development cycle.
- Worked towards revamping the automation testing system, which helped to drastically improve productivity by as much as 25% via more efficient allocation of time and resources spent on a project.
- Authored some documentation for internal use, giving an overview of the automation process.

## Projects

**Arduino-Based Robot (Robotics)**

- Created a 3D-printed 4-wheeled robot built around the Arduino UNO development board, based on the ATmega328P microcontroller.
- Programmed the robot in C++ to be able to avoid obstacles and escape from tight spaces with a 90% success rate.

**Augmented Reality Android and iOS App (Unity3D)**

- Created an AR app that masks a texture onto a real-world object when detected via the camera.
- The tracking and mapping are resilient to various lighting conditions, angles and distances.
- Used C# for scripting and Unity3D as the development platform alongside the Vuforia Engine.

**Email Classification System (Natural Language Processing)**

- Created a command-line program using Python and various libraries including NLTK and Stanford NER Tagger to be able to classify emails by type and content, with an accuracy of 85%, in a hierarchical ontological structure, taking advantage of the inheritance properties of a WordNet.

## Volunteering

**Charity Week for Yemen Appeal** (November 2017)

On-Campus Fundraising

- Planned and organised a very successful 5-day event in which we raised over £3000.
- Raised awareness of the humanitarian crisis in Yemen and managed to engage both staff and students alike.