

Jamal Shuaib

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Education

Carnegie Mellon University in Qatar, BSc Computer Science Varsity Basketball Team	2026 – 2030
Doha College, International A Levels (IAL) - A*A*AA + A* Mathematics, Physics, Computer Science, Psychology + EPQ 2× High Achievers Award; Senior Subject Award (Psychology);	2021 – 2026

Relevant Coursework

Fundamentals of Programming & CS, Concepts of Mathematics, Matrices & Linear Transformations, Reading & Writing in an Academic Context

Projects

Network Vulnerability Scanner & CLI Password Manager, Independent Projects Cybersecurity - Developed a modular Python CLI vulnerability scanner with TCP port scanning, banner grabbing, HTTP header analysis, open-redirect detection, SSL/TLS certificate validation, and timestamped reporting. Built in six modules and tested against a live host. - Built a command-line password manager in Python with passwords hashed using bcrypt and stored locally in JSON. Designed with OOP principles across modular files, emphasising secure credential handling and clean code architecture.	2025 – 2026
Dissertation - AI, Human Rationality and the Alignment Challenge, Research Paper Artificial Intelligence & Psychology Authored an independent dissertation on AI decision-making via normative vs. descriptive rationality models, drawing on utility theory and cognitive psychology; graded A* (Pearson Edexcel).	2025 – 2026
ML Research - Colorectal Cancer Detection, InspiritAI, AI Scholars Programme AI in Healthcare Built a deep learning pipeline for colorectal cancer classification, progressing from MLP to CNN and VGG-16 transfer learning, achieving 91.3% accuracy. Used batch normalisation, dropout, and augmentation to improve generalisation; presented to 100+ peers including MIT and Stanford alumni.	2024

Leaderships & Extracurriculars

Co-Founder & President Python Pioneers Club, Doha College Co-founded and led a student coding club teaching Python fundamentals and mentoring members on independent projects.	2025 – 2026
Basketball Player, Champion & Volunteer Coach, Evo Sports Qatar 2x Tournament Champions, 2x League Runner Ups - Coached under-8s over 6 months, designing age-appropriate drills to develop foundational skills.	2022 – 2025

Honours & Achievements

Champion - Harvard Crimson Bowl, Harvard University - Physics: MENA & Africa Regional Champion; 3rd Place Global Finals - Chemistry: National Champion; 3rd Place, MENA & Africa - Mathematics: 3rd Place, Qatar	2025
Honours - EWB Science & Engineering Competition, Massachusetts Institute of Technology	2025

Skills & Languages

Technical Python (Advanced); Machine Learning & Deep Learning (PyTorch, TensorFlow/Keras, CNNs, MLPs, VGG-16, transfer learning); Data Analysis (pandas, scikit-learn); Version Control (Git, GitHub); Research and Writing	Cybersecurity TCP/IP, socket programming, SSL/TLS, vulnerability assessment, port enumeration, HTTP security analysis, network security principles
Languages - English - Fluent in Speech, Reading & Writing - Arabic - Fluent in Reading and Writing - Hausa - Fluent in Speech	