

MOHAMMAD SUDAIS ARIF

Computer Science Student & Community Leader

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SUMMARY

Personal Statement

As a highly motivated and intellectually curious Computer Science student at Carnegie Mellon University, I am deeply committed to harnessing the transformative power of technology to address complex, real-world challenges. My academic journey, marked by a perfect 4.0 GPA, multiple scholarship offers from prestigious institutions including Rice University, Georgia Tech, and CMU itself, and repeated recognition on the Dean's Honour List, reflects both a passion for discovery and an unwavering pursuit of excellence. Beyond the classroom, I have consistently translated technical knowledge into social impact. As President of the Computing Society, I have spearheaded initiatives that democratize access to emerging technologies, while leading workshops and mentoring programs that cultivate innovation among my peers. My work co-developing the Education Access Portal—a scalable digital platform that connects volunteer educators with underserved students—exemplifies my commitment to bridging educational inequities through thoughtful, data-driven design. My leadership extends into the philanthropic space, where I have raised over £14,000 for healthcare access in underprivileged communities as a UK Ambassador for the Shaikat Mum Memorial Hospital. Simultaneously, I have balanced this civic engagement with performance athletics, representing CMU internationally as a competitive powerlifter, and publishing academic articles at the intersection of artificial intelligence, stress management, and athletic performance. I thrive in interdisciplinary environments that challenge conventional thinking and invite collaborative problem-solving. Whether through hackathon victories in the US and UK, or internships where I've driven process efficiencies in hospital systems, I bring a unique blend of technical proficiency, visionary leadership, and social consciousness to every endeavor. As I continue to explore the frontiers of AI, robotics, and human-centered computing, I am eager to contribute meaningfully to transformative projects that drive both technological advancement and societal progress.

EDUCATION

B.Sc. in Computer Science (4.00 GPA till date)	08/2024 - 05/2028
Carnegie Mellon University	Qatar
Pre-College Program	06/2022
Brown University USA	USA
GCSE-A Levels	09/2017 - 06/2024
Haberdashers' Boys' School	London, United Kingdom

TRAINING / COURSES

Pre-College Program in Computer Science

Completed a Pre-College Program in Computer Science with a focus on device design and problem-solving. Gained hands-on experience in hardware-software integration, algorithm development, and user-centered design. Developed and prototyped functional tech solutions, strengthening both technical skills and strategic thinking in real-world contexts.

Mental Health First Aid

As part of the Student Wellbeing Program, I led a peer initiative to promote mental health awareness, organizing workshops on stress management and creating a safe space for open conversations. I collaborated with counselors to launch a Wellbeing Week, featuring mindfulness sessions, student-led panels, and resource sharing, which saw record participation and positive feedback. Through these efforts, I helped foster a more supportive, informed, and inclusive school environment.

SKILLS

Hard Skills

Python · Java · C# · HTML/CSS · TensorFlow · MATLAB

KEY ACHIEVEMENTS

- ★ **Young Achiever Award**

While maintaining a top 5% academic ranking, I organized weekly tutoring sessions for underclassmen and led a fundraising drive that provided school supplies to underprivileged students. As a UN Youth Representative, I contributed to policy discussions on youth education, and as School Captain, I spearheaded a campus-wide sustainability initiative. These experiences reflect a commitment not only to academic excellence but to using knowledge and leadership to serve others and create lasting, positive change.
- ⚡ **National Powerlifting Champion**

Championship title and recognition for skills in powerlifting at a national level.

STRENGTHS

- ☆ **Leadership**

Proficient in leading teams toward successful project completions, with a strong foundation in leadership built through diverse experiences. Served as School Captain, UN Youth Representative, and VEX Robotics Captain, demonstrating the ability to inspire, coordinate, and drive teams toward shared goals. As Captain of both the Water Polo and Swimming teams, led with discipline and team spirit, fostering collaboration and resilience. Also recognized as a Chess Champion, showcasing strategic thinking and focus—key traits that enhance my leadership in both academic and extracurricular pursuits.

SKILLS

Soft Skills

Leadership · Communication · Teamwork · Problem-solving · Adaptability

WORK EXPERIENCE

Intern 06/2022 - 08/2022
Banner Thunderbird Hospital, Arizona USA Arizona, USA

Research & Operations Intern
A nonprofit medical institution integrating clinical care and research
Gained hands-on experience in clinical operations and healthcare technology through a research-focused internship.

- Explored hospital workflow systems and observed how digital tools support medical research and patient care.
- Participated in the analysis of healthcare IT infrastructure, enhancing understanding of data-driven decision-making in clinical settings.
- Collaborated with multidisciplinary teams to examine opportunities for operational and research process optimization.
- Developed foundational skills in health informatics, system evaluation, and the integration of technology in healthcare environments.

Contributed to the analysis and optimization of healthcare IT systems, strengthening data-driven decision-making and operational efficiency in a clinical research environment.

Infographics Lead (Intern) 01/2023 - 12/2023
Cisco Jobs London, UK

As an intern, I gained valuable insight into digital content creation and user-focused communication within a fast-paced technology platform.

- Developed a deeper understanding of how design and content intersect to enhance technical learning and accessibility.
- Designed educational infographics under mentorship, focusing on simplifying complex technical concepts for diverse user groups.
- Learned to align visual storytelling with user engagement strategies to support learning outcomes and improve content clarity.
- Collaborated with cross-functional teams, refining communication, iteration, and design thinking skills in a professional setting.

Created impactful educational infographics that simplified complex technical concepts, enhancing user engagement and supporting accessible learning on a fast-paced tech platform.


UK Ambassador 12/2022 - 05/2024
Shaukat Khanum Memorial Hospital Peshawar, Pakistan

Charitable, state-of-the-art cancer treatment center offering free care to underprivileged patients


- Championed the hospital's mission by leading awareness and fundraising campaigns across UK communities.
- Successfully raised substantial funds through organized initiatives such as charity marathons, university campus stalls, and local community events.
- Mobilized support by engaging peers, family, and the wider public, fostering networks committed to cancer care equity.
- Developed key skills in public engagement, nonprofit fundraising, event coordination, and healthcare advocacy.
- This experience deepened my commitment to advancing healthcare accessibility and shaped my ambition to work at the intersection of public health and social impact.

Raised significant funds and mobilized widespread community support, directly advancing free cancer care access for underprivileged patients and strengthening advocacy for health equity.

STRENGTHS

 Analytical Thinking

As VEX Robotics Captain, I led our team through a challenging regional competition where our robot malfunctioned just hours before the final round. By quickly analyzing the mechanical fault, delegating tasks, and collaborating under pressure, we redesigned and repaired the system—ultimately securing a top-three finish. Similarly, as School Captain, I facilitated a student-led initiative to address scheduling conflicts between academics and sports, working with staff to create a revised timetable that improved participation and performance across both areas. These experiences reflect my ability to break down complex problems and drive practical, effective solutions.

 Interpersonal Communication

In university, I led a project team composed of members from five different countries, each with unique cultural backgrounds and communication styles. To ensure smooth collaboration, I organized weekly video calls where everyone could openly share their perspectives. I also adapted my communication approach—using clear, simple language and encouraging questions—to bridge language barriers. As a result, the team delivered the project two weeks ahead of schedule with unanimous positive feedback on our teamwork and mutual understanding.

INTERESTS

 Chess Club and Robotics Design Team Member

On the chessboard, I thrive in high-stakes moments—strategically anticipating my opponent's moves several steps ahead to seize victory in tense competitions. This same drive fuels my leadership in robotics design projects, where I coordinate diverse teams to innovate solutions that push technological boundaries. By fostering creativity and precision, I've guided projects from concept to completion, consistently delivering cutting-edge robots that perform flawlessly under real-world conditions.

CERTIFICATION

PADI Advanced Scuba Diver

Certified in advanced scuba diving techniques with emphasis on deep diving, navigation, and underwater safety awareness.

Black Belt, Taekwondo

Black Belt in Taekwondo | Advanced Martial Arts Achievement

- Earned a black belt in Taekwondo, demonstrating mastery of advanced techniques, strategic combat skills, and deep discipline through years of rigorous training.
- Excelled in all core areas, including poomsae (forms), kyorugi (sparring), breaking techniques, and self-defense, reflecting both physical excellence and mental focus.
- Embodied the five tenets of Taekwondo—courtesy, integrity, perseverance, self-control, and indomitable spirit—both inside and outside the dojo.
- Gained extensive experience in high-pressure settings through grading exams and competitive events, strengthening resilience and leadership under stress.
- This achievement has instilled a lifelong commitment to personal discipline, confidence, and continuous self-improvement, influencing both academic and professional pursuits.

UK Mathematics Trust (UKMT)

UK Mathematics Trust (UKMT) Senior Mathematical Challenge
Awarded the Gold Certificate, ranking in the top 4% of participants nationally. Qualified for and won the Senior Kangaroo follow-on round, demonstrating advanced problem-solving skills and mathematical excellence at a national level.

Powerlifter

National Powerlifting Champion | Team Qatar & CMU Representative

- Won the National Powerlifting Championship, demonstrating exceptional strength, discipline, and competitive excellence.
- Selected to represent Qatar and Carnegie Mellon University at the International Powerlifting Competition in Turkey, competing against top athletes on a global stage.
- Gained valuable experience in high-pressure international environments, while promoting athleticism, national pride, and university representation.
- Strengthened skills in goal-setting, physical and mental resilience, and team coordination across cultural and institutional contexts.

PROJECTS

President of Computing Society - CMU 06/2024 - 06/2026
Doha, Qatar

Leadership role within the university's Computing Society.

- Spearheaded workshops enhancing knowledge in AI, robotics, and startup development.
- Increased junior student competence by {30%} through mentorship and skill development initiatives.

AI-Driven Stress Detection App 01/2023 - 12/2023
Haberdashers' Boys' School London

Innovative project addressing student mental health issues.

- Developed a stress-monitoring application utilizing biometric data and machine learning to provide users with personalized, real-time stress analysis, resulting in a marked improvement in user interaction and satisfaction.
- As President, secured distinguished university recognition by strategically leading the presentation of innovative research projects at a prominent event, significantly amplifying visibility among academic and industry leaders, and cultivating valuable partnerships that advanced the institution's research profile.

INTERESTS

★ Water Polo Captain
As captain of the university swim team, I motivated teammates through personalized coaching and by organizing extra practice sessions, which helped the team improve our overall performance by 20% in regional competitions. I also coordinated community water sports events, creating inclusive environments that encouraged new swimmers to develop confidence and teamwork.

⚡ Travel and Culture Enthusiast
I actively seek out immersive travel experiences that deepen my understanding of diverse cultures—navigating bustling markets in Marrakech, participating in traditional festivals in Japan, and engaging with local communities to appreciate their customs firsthand. These journeys enrich my global perspective and adaptability, qualities I bring to every professional setting.

LANGUAGES

English	Native	●●●●●
Pashto	Native	●●●●●
Arabic	Intermediate	●●●●●
German	Intermediate	●●●●●

PROJECTS

Education Access Portal 09/2024 - 06/2025

Qatar

Education Access Portal — University Campus

- Directed end-to-end development of an educational platform that optimized volunteer-student matches using smart algorithms and analytics, scaling access across campuses and driving meaningful learning support in underserved communities.
- Successfully facilitated hundreds of high-impact tutoring sessions and expanded equitable learning opportunities for students from underrepresented backgrounds