Tehsin Shaik

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Professional Statement

Performance-driven Computer Science (AI concentration) undergraduate with research interests in computer vision, robotic perception, edge AI, and autonomous systems. Passionate about developing intelligent vision systems that bridge deep learning research with real-world robotic deployment, and seeking opportunities to contribute to impactful AI research while preparing for graduate studies.

Education

Khalifa University — Abu Dhabi, UAE
Bachelor of Science in Computer Science (AI Concentration) — GPA: 3.61/4.0 — Aug. 2023 - 2027

Korea Advanced Institute of Science and Technology (KAIST) — Daejeon, South Korea
GE3 Global Exchange Program — Aug. 2025 - Dec. 2025

Experience

Computer Vision & Robotics Intern – KURA Robotics Internship — Jun 2026 – Aug 2026

- Engineering a real-time humanoid soccer perception pipeline by integrating jersey-color classification, torso-crop filtering, HSV fallback validation, and edge-case handling for robust teammate/opponent identification.
- Developing possession-aware high-pressing logic that uses vision-based opponent-ball proximity to trigger aggressive lead-striker pursuit for faster ball recovery in RoboCup gameplay.

Product Development Manager – EcoCraft — Mar 2026 – Present

- Built the core game for a sustainability education startup serving students ages 8–14, translating recycling, ecosystem restoration, crafting, and UN SDG concepts into interactive gameplay.
- Led product development and iterated on game mechanics through student testing and feedback, balancing technical design with accessibility, engagement, and real educational needs.

Game Development Course Tutor - Khalifa University — Jan 2026 – May 2026

- Delivered weekly Unity-based lectures on C# programming and core game development concepts
- Mentored 20+ students in project development, providing guidance on debugging and feature implementation

Projects

MirrorMind

AI Developer

- Engineered a real-time browser-based engagement estimation system using facial landmark inference with custom feature engineering and temporal modeling
- Built a state-driven adaptation framework integrating engagement scores with an LLM to dynamically adjust explanation style based on real-time user state.

BookMyManzil - Smart AI-Driven Hotel Booking Platform

Software Developer

- Built a full-stack hotel booking and guest management platform with role-based access control, real-time availability validation, conflict-safe reservations, and digital check-in/check-out workflows.
- Integrated AI-powered conversational assistant and demand forecasting modules to enable dynamic pricing recommendations and data-informed decision-making

Crop Pest and Disease Detection

ML Developer

- Developed a PyTorch-based image classification pipeline using custom CNN architectures, transfer learning, class balancing, and data augmentation.
- Benchmarked custom CNNs against ResNet18, EfficientNet-B0, and VGG16, achieving 95.7% accuracy on cashew disease classification and 85.9% on maize.

Skills

Programming Languages: Python, Java, JavaScript, C, C++, C#, R, SQL, MATLAB

AI & Robotics: Machine Learning, Deep Learning, Edge AI, Data Preprocessing, Computer Vision, ROS 2

ML Frameworks & Libraries: PyTorch, TensorFlow, scikit-learn, OpenCV, NumPy, pandas, Matplotlib

Technologies & Tools: Git/GitHub, Docker, Supabase, Unity, VS Code, Eclipse

Frameworks: React.js, Next.js, Node.js, Django, PostgreSQL, MySQL, MediaPipe, WebAssembly, WebGL

Leadership & Community Engagement

Study Abroad Student Mentor - Khalifa University Jan 2026 – Present

- Guiding 30+ incoming exchange students through academic onboarding and campus transition
- Organizing social and cultural engagement initiatives to foster cross-cultural collaboration

Events Chair – AI Club, Khalifa University Aug 2026 – Present

- Leading the planning and coordination of AI-focused student events, working with executive members, speakers, and volunteers to expand campus engagement.

Head of Marketing and Media - AI Club Sept 2024 – Aug 2026

- Leading marketing strategy and promotional content development for 6+ AI-focused events and initiatives
- Managing and expanding club's social media presence across platforms

Environmental Group Volunteer – Emirates Environmental Group 2022 – 2026

- Led door-to-door recycling efforts, personally collecting 3,000 kg of paper and e-waste for recycling and planting four indigenous trees through sustainability campaigns.

Selected Awards & Activities

Khalifa University Scholarship Recipient 2023–Present

2nd Place, The Last Dance Buildathon – Socia, Replit & 42 Abu Dhabi 2026

Silver Medal, ADEK Sports Cup – Khalifa University Women's Badminton Team 2025

Dean's List, Khalifa University Spring & Fall 2024

President's List, Khalifa University Fall 2023