

# Muhammad Sunabil Khawaja

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## CAREER PROFILE

I aspire to thrive in a challenging and dynamic environment where I can leverage my academic foundation and acquired skills to contribute meaningfully to organizational goals. With a keen interest in Artificial Intelligence, Machine Learning, and Data Science, I am driven by a passion for innovation, problem-solving, and research. My goal is to delve deeper into these cutting-edge fields, explore their vast potential, and contribute to advancements through hands-on exploration and impactful research. Confident in my abilities and eager to learn, I am committed to continuous growth and excellence in my professional journey.

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## EDUCATION

**Masters in Information and Communication Engineering (AI & ML), UESTC, China** 2025-2027  
**Research**

**Bachelor of Science in Computer Science, Riphah International University** 2021-2025  
3.79 CGPA

**Faculty of Science Pre-Engineering, Punjab Group of Colleges**  
Grade A in Chemistry. 2019-2021

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## Experience

### Software Engineer

SAMARSOL

**Hauxton, Cambridge UK (Remote)**

August, 2023 – Present

- Created and maintained responsive web applications using **AngularJS** and **ReactJS**.
- Collaborated with cross-functional teams to deliver user-centered designs and solutions.
- Communicated effectively with clients to align development with business goals.
- Implemented and maintained **automation testing frameworks** using tools like **Jest** and **Selenium**, improving test coverage by **30%**.
- Conducted **functional, integration, and regression testing** to ensure software stability and performance.
- Collaborated with development teams to identify, document, and resolve critical bugs, ensuring high-quality deliverables.
- Designed and executed **test cases** for web and mobile applications, adhering to project requirements and industry standards.
- Provided **technical QA expertise**, mentoring team members in testing tools and best practices.

## **Trainee Mobile Developer**

Extreme Commerce

**Faisalabad, Pakistan**

June, 2024– August, 2024

- Developed mobile applications using **Kotlin**, with hands-on experience in Android app development.
- Completed a **comprehensive Kotlin development course**, mastering foundational to advanced concepts.
- Designed and implemented multiple mobile apps, showcasing expertise in **UI/UX design**, **API integration**, and performance optimization.
- Proficient in debugging tools and applied modern app development best practices.

## **Social Media Marketer**

Decor-inn

**Faisalabad, Pakistan**

June, 2021– June, 2023

- Developed and executed data-driven social media strategies across platforms like Facebook, Instagram, and Twitter to increase brand visibility and engagement.
- Created and curated engaging content including graphics, videos, and blogs, aligned with brand messaging and target audience interests.
- Managed social media campaigns, tracked performance metrics, and optimized strategies to achieve KPIs such as increased website traffic and sales conversions.
- Led community management efforts, responding to user inquiries and comments to build brand loyalty and foster a positive online environment.
- Collaborated with cross-functional teams, including design, sales, and customer support, to ensure cohesive marketing strategies.
- Utilized analytics tools to monitor trends and continuously improve campaign performance and ROI.

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## FINAL YEAR PROJECT

RIPHAH INTERNATIONAL UNIVERSITY

December, 2024 – June 2025

Developed a Smart CCTV Anomaly Detection System that uses machine learning models to detect guns in real-time from CCTV footage. Upon detecting a weapon, the system captures the relevant video frames and sends an alert with the saved frames to the designated owner for prompt action. The system enhances security by automating the detection process and ensuring faster incident reporting.

### Key Features:

Real-time gun detection from video streams.

Automatic frame extraction and storage upon anomaly detection.

Alerts with captured frames sent to the designated recipient/owner.

### Technologies Used:

**Programming Language:** Python

**Machine Learning Models:** YOLO (You Only Look Once), SSD (Single Shot Multibox Detector), or other object detection models

**Libraries/Frameworks:** OpenCV, TensorFlow/Keras, PyTorch

**Notification System:** Email/Cloud integration for alerts (e.g., SMTP for emails or Twilio API for messaging)

**Video Processing:** OpenCV for real-time video stream processing

**Data Handling:** NumPy, Pandas

**This project demonstrates expertise in machine learning, computer vision, and real-time video processing, showcasing the ability to develop intelligent systems for enhanced security applications.**

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## **CERTIFICATIONS**

Amazon Private Label and Wholesale	2022-2022
CCNA- Cisco Packet Tracer (Networking Essentials)	2024-2024
Navttc-Mobile Application Development	2024-2024
Lerify Quest – Virtual Assitant – Amazon Wholesale	2024-2024

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## **SKILLS**

- Great at Problem Solving
- Digital Marketing
- Visual Studio Code
- Microsoft Office
- Ability to Quickly Create and Apply Ideas and Solutions
- Good Leadership Skills
- Attentive Listening and Effective Oral Communication Skills

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## **SKILLED LANGUAGES & FRAMEWORKS**

- C++
- HTML
- CSS
- JavaScript
- Angular /React JS
- C#
- Python
- Kotlin

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## **LANGUAGES**

- English
- Urdu

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## **HOBBIES**

- Photography
- Travelling