




CONTACT

 **Address**
Bungalow No. D-5 Mousary
Road

 **Phone number**
0349-5595902

 **Email**
msaadkhan200212@gmail.com

LANGUAGES

Urdu
English

Muhammad Saad Khan

Software Engineer Undergrad

PROFILE

A passionate software developer with experience in web and mobile app development, mainly using Python and Flutter. Skilled in building user-friendly applications with features like authentication, CRUD operations, and Firebase integration. Currently working on a Final Year Project, "AI Driven Command and Control System," combining hardware, computer vision, and Python-based tools. Focused on creating practical and impactful solutions.

PROFESSIONAL EXPERIENCE

PTCL Islamabad:

- I worked as an intern at PTCL in Islamabad, where I gained extensive knowledge and hands-on experience in networking.
- During my internship, I learned about various networking protocols and their applications. I had the opportunity to visit PTCL's data center in Islamabad, where I observed the management of servers on a large scale and the infrastructure supporting such operations.
- Additionally, I deepened my understanding of Ubuntu Linux systems and explored how large-scale systems are structured and maintained efficiently.

Mobilink Microfinance Bank Limited (MMBL):

- I interned in the Software Development Department, where I contributed to mobile app development. As a leading financial institution, the bank provided a dynamic work environment that offered valuable learning opportunities.
- Developed a **GPA Calculator** for students to calculate their grades efficiently.
- Created a **BMI Calculator** for assessing health metrics.
- Built a **blogging app** inspired by Instagram, featuring functionalities like post creation and user interaction. I integrated Firebase Firestore for database management and Firebase Authentication for secure user access.

BX Technologies Islamabad:

As an intern at BX Technologies, I received hands-on training in the Django framework, focusing on building a board application similar to a blogging app. The internship covered all phases of the software development lifecycle, including design, development, and deployment.

Responsibilities:

- Set up the Django project structure, ensuring modular and maintainable code.
- Implemented **Models, Views, and Templates** (MVT architecture) to manage data flow and user interface.
- Worked on **authentication and user management** features, including login, registration, and access control.
- Handled **CRUD operations** for posts and comments, enabling dynamic content management.
- Integrated static files like CSS and JavaScript and managed media outputs for user-uploaded content.
- Deployed the application on a development server, ensuring it was functional and accessible for testing.

Final Year Project (Pak-Austria Fachhochschule: Institute of Applied Sciences and Technology) (Ongoing):

Currently working on designing and implementing a security system (AI Driven Command and Control System) aimed at protecting high-risk areas through real-time surveillance and remote gun control.

- **Object Detection:** Utilizing YOLO and OpenCV for identifying and tracking suspicious activities.
- **Camera Integration:** Incorporating a Logitech webcam for live video streaming.
- **Motor Control:** Employing Raspberry Pi to enable precise control of gun movements.
- **Python-based Front-End:** Developing a user interface in Python for system monitoring and remote control.
- **Communication and Control:** Establishing reliable communication between hardware and software components for seamless operation.

Projects:

Kids Learning App (Quizy):

Course Project

- Developed a full android based application in JAVA as an end semester Project for my course of Object-Oriented Programming.
- Its was a platform designed for pre school kids from where they can learn about basic things about general knowledge.

Sales Management System

Course Project

- Full website developed as an end semester Project for Database Systems course. I used HTML/CSS, JavaScript, PHP and MySQL.
- I applied the skills of full Stack Development I learned from the course on this project.

Vehicle Identification System using Arduino

Semester Project

- Developed a Vehicle identification using Arduino.
- The number of the vehicle was matched with the database and if match found the barrier would open.

Threads & Trends:

Semester Project:

- Developed an E-commerce website using Html/CSS/JS/MySQL.
- Integrated payment gateway.

EDUCATION

- BACHELOR in Software Engineering at Pak-Austria Fachhochschule: Institute of Applied Sciences and Technology
- FSC (Pre- Engineering) from FG Degree College For Men, Wah Cantt.
- MATRICULATION in Biological Sciences from P.O.F Model High School, Wah Cantt.

STRENGTH AND EXPERTISE

- Python.
- Flutter.
- HTML / CSS / JAVA Script / PHP.
- MySQL
- C++

DIGITAL SKILLS

- Microsoft Excel.
- Microsoft Word.
- Microsoft Power Point.
- Canva.
- Figma.