

Muhammad Saad Khan

Software Engineer Undergrad

PROFILE

Passionate software developer with experience in web and mobile app development, with extensive knowledge in Python and Flutter. Skilled in building user-friendly applications with features like authentication, CRUD operations, and database integration.

CONTACT

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EDUCATION

- BACHELOR's in Software Engineering at Pak-Austria Fachhochschule: Institute of Applied Sciences and Technology (2021 - Present)
- FSC (Pre- Engineering) from FG Degree College For Men, Wah Cantt. (2019 - 2021)
- MATRICULATION in Biological Sciences from P.O.F Model High School, Wah Cantt (2017 - 2019)

PROGRAMMING LANGUAGES

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

LANGUAGES

Urdu
English

DIGITAL SKILLS

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

PROFESSIONAL EXPERIENCE

PTCL Islamabad (Intern):

(July 2022 – Aug 2022)

Gained practical experience in networking, knowledge of networking protocols and observing large-scale server management.

- Acquired knowledge and hands-on experience in networking, focusing on the implementation and application of various networking protocols.
- Observed large-scale server management and infrastructure operations during a visit to PTCL's data center in Islamabad, enhancing my understanding of enterprise-level network management.
- Strengthened expertise in Ubuntu Linux systems and gained insights into the efficient structuring and maintenance of large-scale systems.

Mobilink Microfinance Bank Limited (MMBL) (Intern):

(Aug 2024 – Sep 2024)

Contributed to mobile application development during an internship in the Software Development Department of a leading financial institution, gaining hands-on experience in a dynamic work environment.

- Developed a GPA Calculator.
- Created a BMI Calculator.
- Built a feature-rich blogging app inspired by Instagram, incorporating functionalities like post creation and user interaction, with Firebase Firestore for database management and Firebase Authentication for secure user access.

BX Technologies Islamabad (Intern):

(Jun 2024 – Aug 2024)

Received hands-on training in the Django framework, focusing on building a board application similar to a blogging app.

Responsibilities:

- Set up the Django project structure, ensuring modular and maintainable code.
- Implemented **Models, Views, and Templates** (MVT architecture).
- Worked on **authentication and user management** features.
- Handled **CRUD operations** for posts and comments.
- Integrated static files like CSS and JavaScript.
- Deployed the application on a development server.

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.