MUHAMMAD BILAL AKRAM

ASPIRING SOFTWARE ENGINEER | DEVELOPER | PASSIONATE PROBLEM SOLVER

CONTACT

- +923075936658
- 190204ba@gmail.com
- Civil Lines, Kahnewal
- www.linkedin.com/in/bilal-akram-081b86268
- github.com/BILALAKRAM27

PROFILE SUMMARY

I am a hardworking Software Engineering student with a strong passion for building real-world solutions through code. I learn fast, take initiative, and never give up on solving a challenge. My work includes creating full-stack web apps, machine-learning tools, and even hardware-integrated projects. I believe in always improving and am eager to grow with a team that values dedication, innovation, and learning.

EDUCATION

2022 - 2026
COMSATS UNIVERSITY ISLAMABAD
Bachelor of Software Engineering

2018 - 2020
CITY PUBLIC SCHOOL SYSTEM
MATRIC (SCIENCE)

2020 - 2022
PUNJAB GROUP OF COLLEGES
F.S.C Engineering

WORK EXPERIENCE

BUZTable – Restaurant Reservation & Ordering Platform
Full Stack Developer   2024 - 2025

- Developed a full-stack web application enabling users to book tables, place food orders, and interact with restaurants in real time
- Implemented user authentication, restaurant profiles, dynamic menus, order processing, and reservation workflows
- Built a restaurant admin panel for managing schedules, menu items, offers, and availability
- Integrated real-time features for order and reservation updates
- Led a team of 3 developers, coordinated tasks, and ensured timely project completion

Sign Language Interpreter – AI Tool for Communication
Python Developer   2025

- Designed an AI-powered application to translate sign language gestures into text and speech
- Captured hand gestures using a webcam and processed visual data for gesture recognition
- Implemented Text-to-Speech (TTS) to convert interpreted text into spoken output
- Improved accessibility and communication for individuals with hearing impairments

SKILLS

- **Languages:** Python, C++, Kotlin, VDMSL, JavaScript, HTML5, CSS, TypeScript,TailWind, NativeWind.
- **Frameworks:** Django, MediaPipe, OpenCV, Node.js, Bootstrap, Daphne, Streamlit, Express.js, React.js, Native / Expo, Socket.IO.
- **Databases:** MySQL, MS SQL, SQLite3, Neon, PostgreSQL, MongoDB.

- **Tools & Technologies:** Git, GitHub, JIRA, Figma, Postman, Draw.io, Lucidchart, dbdiagram.io, WebSockets, RESTful System Design, JWT Authentication.
- **Soft Skills:** Communication, Problem-Solving, Time Management, Adaptability.

LANGUAGES

- English: Intermediate
- Urdu: Native

Voice & Bluetooth Controlled Car – Hardware Integration Project

Project Lead   2025

- Built a smart vehicle controllable via voice commands, Bluetooth mobile application, and RC remote
- Integrated hardware components with custom control logic
- Performed system testing, debugging, and optimization to ensure reliable performance
- Demonstrated and showcased the project functionality

Projects: MarketVibe & CoFound

Full Stack Developer (Internship Project)   2025

- Developed two large-scale web platforms: a multi-vendor e-commerce system and a professional networking application
- Built role-based systems for buyers, sellers, entrepreneurs, and investors
- Implemented secure authentication, user profiles, content sharing, and collaboration features
- Designed complete e-commerce workflows including product catalogs, carts, checkout, and order tracking
- Integrated Stripe Connect for secure multi-vendor payment processing and payouts
- Implemented real-time messaging and meeting scheduling using asynchronous architecture
- Built advanced features such as smart search, quotes system, gift campaigns, newsletters, and fundraising workflows
- Supported scalable, real-time communication using Daphne

Projects: Email Spam Classifier, MNIST Digit Recognition, Iris Flower Classification

Full Stack Developer (Internship Project)   2025

- Developed and deployed multiple machine learning applications covering classification, visualization, and explainability
- Built an email spam detection system using multiple ML models with performance comparison
- Implemented model explainability using LIME and SHAP to interpret predictions
- Developed handwritten digit recognition models using Logistic Regression and CNNs
- Designed and executed the complete ML pipeline: data preprocessing, training, evaluation, and deployment
- Built interactive Streamlit applications for real-time predictions and visual analytics
- Created detailed visualizations using Matplotlib, Seaborn, and Plotly