Omer Jauhar Khan

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EDUCATION

- **National University of Computer and Emerging Sciences** — Peshawar, Pakistan
  Bachelor of Science in Computer Science; CGPA: 3.93 — *Aug. 2021 – May. 2025*
  - **Honors**: Gold Medal And Dean's List (All Semesters up till now).
  - **Activities**: GDSC-PWR, & COLAB

- **Fazaia Inter College** — Lahore, Pakistan
  Higher-Secondary School Certificate (Pre-Engineering); Marks: 1052/1100 — *2020 – 2021*
  - **Honors**: Full Scholarship.

- **Garrison Boys High School And Intermediate College** — Lahore, Pakistan
  Secondary School Certificate (Computer Science); Marks: 1067/1100 — *2019 – 2020*
  - **Honors**: LGES High Achievers Award.

EXPERIENCE

- **Teaching Assistant** — Peshawar, PK (Part-Time)
  Aug 2022 - Ongoing
  - **Design and Analysis of Algorithms**: Guided students in hands-on learning of algorithm design, analysis, and problem-solving.
  - **Programming Fundamentals**: Provided hands-on support for students mastering coding syntax, logic, and foundational programming skills.
  - **Differential Equations**: Played a key role in helping students understand solving differential equations, including first-order, second-order equations, and systems.

PROJECTS

- **Crab DB**: Crab DB, a Rust-based database management system with both SQL and No SQL features. Focused on gaining experience with Rust and developing skills in database design and management.
- **Hospital Management System**: System software in C++ using Qt, linked to Google Firebase via REST API, with basic I/O file handling for certain features and data storage. Also created a C++/Cli version with windows forms for GUI (unfinished)
- **Sign Detection**: Trained a model to detect sign language with tensor flow object detection module.
- **Self Detection**: Trained a model to detect me using tensor flow object detection module.
- **HMS App**: Flutter App for hospital management system project linked to Google Firebase.Appointment booking and Bill Generation features

PROGRAMMING SKILLS

- **Languages**: Rust, C, C++,TypeScipt,Java,Javascript,bash, Assembly & Python.
- **Technologies**: MySQL, MongoDB,Node, React Qt, Flutter, Firebase, Docker, Hugo, TFOD,

TECHNICAL SKILLS

- **Git and Github**: Proficient in using Git for version control and source code management
- **DSA ALGO**: Proficient in implementing and optimizing data structures and algorithms.
- **Devops Tools**: Knowledge of using Docker for containerization and learning new devops tools like Ansible,Kubernetes and OpenShift