MUHAMMAD ASAD KHALID

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BIO:

Software Engineering Student | Lecturer | Aspiring Data Engineer | Data Analyst

Final-year BS Software Engineering student with strong hands-on experience in both Python and MERN stack development. Built complete software systems including a Python-based Pharmacy Management System and a full-stack MERN hiring platform. Skilled in backend development, RESTful APIs, database design, authentication, and responsive UI development. Seeking a Junior Software Engineer role to apply practical development skills and grow in a professional environment.

EDUCATION

-**UNIVERSITY OF KARACHI**
- Undergraduate
- BSSE–(7th semester)

-**INTERMEDIATE**
- Govt.islamia science college
- Pre-engineering -A^{-1}

WORK EXPERIENCE

- Jr.Database Administrator   (28 Oct — 30 Nov)

- **Organization::**University Of Karachi,**Internship,onsite**
- **Achievements:**
  - Maintained and optimized data pipelines for smooth data flow.
  - Integrated datasets into SQL Server while ensuring accuracy and integrity.
  - Troubleshot data issues and resolve errors to maintain system reliability.

-Teaching   (2023 MAY — 2024 OCT)

- **Organization:**Meritorious Schooling/Coaching System**,Regular,Onsite**
- **Achievements:**
  - Simplified technical concepts for students, demonstrating strong communication skills.
  - Conducted interactive sessions to foster critical thinking and problem-solving.
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PORTFOLIO

Pharmacy Management System (Desktop Application) pms

Tech: Python, PySide6 (Qt), SQLite, PDF Reports

• Developed complete inventory and billing system for pharmacies.
 • Implemented stock tracking with expiry and low-quantity alerts.
 • Built billing module with automatic price calculation and receipt generation.
 • Generated PDF sales reports and printable invoices.
 • Added secure login system for admin access.
 • Implemented full logging system for all actions (audit trail).
 • Designed user-friendly GUI with menus and alerts**.**

TalentSphere — MERN Hiring Platform (Indeed/Glassdoor-like System) talentsphere

Tech: MongoDB, Express.js, React, Node.js, JWT, bcrypt, REST APIs

• Built full authentication system with JWT and encrypted passwords.
 • Implemented role-based access for Job Seekers and Employers.
 • Developed job search with filters (title, company, location, experience).
 • Created job application system with status tracking (Applied → Accepted).
 • Prevented duplicate applications using backend validation.
 • Employer dashboard to post jobs, manage listings, and review applicants.
 • RESTful API architecture with MVC structure.

CERTIFICATES

● BASIC OF PYTHON PROGRAMING	**FROM** GREAT LEARNING
● BASIC OF HTML5	**FROM** GREAT LEARNING
● JAVA OOPS	**FROM** GREAT LEARNING
● FIGMA PROTOTYPE	**FROM** COURSERA
● EXCEL.	**FROM** GREAT LEARNING
● SNOWFLAKE BATCH 1	**FROM** SNOWFLAKE
● SNOWFLAKE BATCH 2	**FROM** SNOWFLAKE
● DATA ANALYTICS AND BI	**FROM** DIGISKILLS
● INTRODUCTION TO CYBER SECURITY	**FROM** CISCO

Technical Skills

Languages & Tools: Python, SQL, Pandas, Airflow, AWS (S3, QuickSight), Snowflake, Power BI,MERN
Data Engineering: ETL/ELT pipelines, data cleaning, workflow automation, data modeling,data architecture
Other: GitHub, Trello, Excel,Figma