

## **Javaria Azam**

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I'm currently pursuing a degree in Software Engineering and looking to gain practical experience through an internship that will help me apply my skills to real-world challenges. I'm especially drawn to CoreTech Innovations because of its focus on forward-thinking technology and collaborative development culture. I'm excited to contribute meaningfully while learning from a team that values both innovation and thoughtful design.

**Education** Bachelor of Software Engineering Mehran University of Engineering and Technology (MUET), Jamshoro

**Expected Graduation:** 2027

### **Skills & Tools Languages:**

Java, Python, JavaScript Databases: MongoDB, MySQL, CSV (structured/unstructured data handling) Technologies & Tools: Docker, Git, Eclipse, VS Code Concepts: OOP, Data Structures, Software Design Patterns (Observer, Strategy, Iterator) Web Development: HTML, CSS, Flask (basic) Platforms: Windows, Ubuntu Linux

### **Academic Projects**

#### **1. Healthcare Data Warehouse (Java)**

Developed custom Java modules to clean, transform, and load healthcare-related datasets into fact and dimension tables.

Implemented classes like Data\_Cleaner, DataGenerator, and DataLoader with strong focus on error handling and consistency checks.

#### **2. MongoDB To-Do CLI Application (Python)**

Built a command-line to-do list manager with persistent storage using MongoDB.

Designed user interaction loops and integrated PyMongo to support task creation, reading, and real-time updates.

#### **3. PBLTask — Food and Feed Metadata Analyzer (Java)**

Engineered a lightweight data structure solution using custom hash tables and linked lists (no Java library structures used).

Designed filtering and analysis features for a real-world dataset without relying on built-in maps or sets.

**Self-Learning & Personal Initiatives** Learned cryptographic systems like Caesar Cipher and explored real-world cybersecurity events (e.g., Twitter Hack 2020).

Practiced static routing using Cisco Packet Tracer and studied basic network topology setups.

Gained hands-on experience with Linux, including basic commands, navigation, and development environment setup.

**Internship Goals** Apply classroom knowledge to hands-on software development in a professional setting.

Learn development workflows, version control practices, and team communication strategies.

Contribute to meaningful projects while sharpening my problem-solving and decision-making skills.

### **Interest Areas**

Software Development & Backend Engineering

Leadership & Team Coordination

Scalable System Design

Data Cleaning & ETL Pipelines

Creative Problem Solving

### **Languages**

English – Professional proficiency

Urdu – Native speaker