

# Khawaja Azfar Asif

Associate Software Engineer

Lahore, Pakistan | +92-3098287841 | [khawajaazfar2000@gmail.com](mailto:khawajaazfar2000@gmail.com) | [Linkedin.com](https://www.linkedin.com/in/khawajaazfar2000) | [Github.com](https://github.com/khawajaazfar2000)

## PROFESSIONAL EXPERIENCES

### Digimark Developer – Associate Software Engineer

August 2025 – Present

- Designed and developed **RESTful APIs using FastAPI**, ensuring high performance and scalability.
- Implemented **authentication, error handling, and logging** in FastAPI for secure and reliable API workflows.

### Dubizzle Labs – Data Specialist

September 2024 – December 2024

- Assisted in creating a comprehensive dataset for a new product by developing **Python scripts** for **web scraping** from diverse source and verifying data using Dubai-based platforms.
- Manage and verified data in **Google sheets**, **automating** data collection using python to boost project efficiency.

### InvZone – Machine Learning intern

February 2024– May 2024

- Fine-tuned **transformer-based NLP models** (BERT, RoBERTa) using PyTorch/TensorFlow to enhance inference accuracy.
- Developed **API-integrated ML pipelines** to enhance inference accuracy and accelerate AI prototyping.

### DevSinc – Software Engineering Intern

July 2023 – September 2023

- Developed and deployed responsive web pages using **HTML, CSS, and Bootstrap**.
- Contributed to **backend development** by implementing **Django framework essentials** (MVT, ORM) and building **RESTful APIs** using **Django REST Framework**.
- Applied core Django concepts to real-world projects by building interactive **management system** and deployed it.

## PROJECTS

### Dental Enumeration and Diagnosis on Panoramic X-Rays – (Final Year Project)

- Built an end-to-end **object detection system** for dental enumeration and disease diagnosis on panoramic X-rays.
- Achieved **96% accuracy of teeth** detection and **75% of teeth diseases** detection using **YOLOv8 deep learning** for model training.
- **Leveraged Pandas, NumPy, Matplotlib, Seaborn, and Scikit-learn** for data handling and analysis.
- Deployed the system on **GCP**.

### Pneumonia X-Ray Classifier – Machine Learning Project

- Developed **deep learning** system for the **classification** of pneumonia from chest X-ray images.
- Leveraged **Convolutional Neural Networks (CNNs)** built with TensorFlow/Keras for robust model training, achieving **95% diagnostic accuracy**.
- Deployed the interactive diagnostic application on **Streamlit Cloud**.

### E-commerce RAG System for Internal Communications – Retrieval Augmented Generation Project

- Developed a RAG solution using **Pgvectorscale**, Python and utilizing OpenAI's **text-embedding-3-small model** for embeddings.
- Utilized **Docker** for environment setup and managed database interactions with a **PostgreSQL** GUI client for seamless development and deployment.

## EDUCATION

### Lahore Garrison University (LGU)

February 2020 – March 2024

- *Bachelor of Science | Software Engineering | CGPA: 3.0 / 4.0*
- *Core Courses: Software requirements, Software Construction & Development, Software Project Management, Artificial Intelligence, Machine Learning, Deep Learning, Linear Algebra, Statistics.*

## LEADERSHIP ACTIVITIES

### Event Society of Software Engineering, Lahore Garrison University - President

September 2023 – March 2024

- Organized university first Job Fair, Onboard 20+ companies and single-handed manages them throughout the event.
- Arrange multiple Industrial visits for student so they can know about latest trends and technology of industry.

### DevSinc – Ambassador

April 2023 – February 2024

- Leading Ambassador of DevSinc, representing the company at my university.
- Organized and conducted various events to promote Advance Technology on campus.
- Developed and nurtured relationships with students, faculty, and staff.

## CERTIFICATIONS

- Machine Learning A-Z: AI, Python & R(Udemy)
- Open-source LLMs: Uncensored & secure AI locally with RAG

## PROFESSIONAL SKILLS

**Languages:** Python (Intermediate), C++

**Technologies:** SQL, Git/ GitHub, Docker, AWS, GCP, HTML, CSS, Postgresql (Beginner), GCP, RAG, YOLO, Streamlit,

**Libraries & Frameworks (Python):** FastAPI, Django, Pandas, NLTK, OpenCV, scikit-learn, PIL, NumPy, Matplotlib, Plotly, Streamlit.