Tahreem Zara

Lahore, Pakistan | Phone # + 92-306-0260959 | zara.s.0342@gmail.com | [LinkedIn Link]

EDUCATION

COMSATS University Islamabad, Lahore Campus   **Lahore, Pakistan**
MSCS   *Graduation Date: Oct 2025*

Virtual University Of Pakistan, Lahore Campus   **Lahore, Pakistan**
MSIT   *Graduation Date: Feb 2020*

WORK EXPERIENCE

Bitlogics   **Lahore, Pakistan**
Mobile App Developer   *Nov 2024 - Sep 2025*

- Developed and maintained cross-platform mobile apps Table Star and Efficiency App using Ionic, Angular, Firebase, and Chart.js.
- Designed Figma-like UIs, integrated REST APIs, and implemented state management with NgRx for smooth app functionality.
- Collaborated on features like reservation workflows, interactive charts, and custom chatbots, improving user experience and engagement.

Ilm Ul Irfan   **Remote**
Python for Machine Learning Intern   *Jun 2024 - Aug 2024*

- Implemented machine learning models and data preprocessing pipelines for real-world datasets.
- Gained hands-on experience in Python libraries for ML, such as scikit-learn and pandas, and workflow automation.

Gametrain (Generation Global Funded)   **Remote**
MEAN Stack Web Developer Intern   *Aug 2023 - Nov 2023*

- Developed full-stack web applications using MongoDB, Express.js, Angular, and Node.js.
- Built dynamic user interfaces and integrated backend APIs to enhance application functionality.
- Collaborated with the team on project deployment, testing, and debugging to ensure reliable performance.

PROJECT EXPERIENCE

Table Star (Mobile App)

Ionic, Angular, Firebase   *Feb 2025 - Aug 2025*

- Developed the front-end of a cross-platform mobile app (published on Play Store & App Store).
- Designed and implemented Figma-like UIs with native mobile functionalities.
- Integrated REST APIs to handle user data, restaurant data, and reservation workflows.
- Implemented NgRx store for efficient data caching and real-time reservation management (create, update, delete).

Efficiency App (Healthcare Data Visualization)

Ionic, Angular, Chart.js   *Dec 2024 - Feb 2025*

- Built interactive data visualizations (gender, disease, demographics) using Chart.js with API-driven data.
- Designed and developed Figma-like UIs for a smooth user experience.
- Integrated a custom chatbot for patient data input (age, gender, ethnicity, country of birth, etc.).
- Implemented features for chart favoriting, data viewing, and exporting reports as PDFs.

Breast Cancer Detection Using Deep CNNs

Master's Research Project   *Feb 2024 - Feb 2025*

- Developed a deep learning pipeline for breast cancer detection using U-Net with ResNet encoder for segmentation and DenseNet169 for classification.
- Designed a custom annotation tool leveraging K-means clustering and interactive image selection to generate binary masks for training, automating mask creation and dataset organization.

- Experimented with multiple CNN architectures to optimize segmentation and classification performance on histopathology images.
- Implemented a workflow for data pre-processing, mask generation, and model training, improving efficiency in preparing large-scale annotated datasets.

AI Health Chatbot

Node.js, Express.js, OpenAI API   *Sep 2025 - Sep 2025*

- Developed a multilingual AI-powered chatbot that provides safe, general health advice in both English and Urdu.
- Designed and implemented REST APIs with scalable architecture (routes, controllers, services) to handle chatbot queries.
- Integrated OpenAI GPT models with prompt engineering to ensure responsible responses and avoid medical diagnoses.

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, SQL

Frameworks: Angular, Ionic, Node.js, Express.js, Django

Libraries: Chart.js, NgRx, TensorFlow, PyTorch, OpenCV

Other: Git, Figma, Firebase, REST APIs, Machine Learning, Deep Learning