

Sumaira Hafeez *Full stack AI developer*

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🔗 Sumaira Hafeez

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Professional Summary

Motivated and results-driven Computer Science undergraduate with strong foundations in web and software development. Skilled in React.js, Flask, scikit, Node.js, and database systems. Seeking a Software Engineering Internship where I can contribute to building scalable applications and learn from experienced professionals. Passionate about leveraging technology to solve real-world problems and enhance user experience.

Experience

07/2024 – 09/2024

Software Engineer Fellow

Headstarter AI

- Crafted an interactive personal portfolio site via React.js and Vite, integrating responsive design principles which resulted in a 0
- Deployed applications on GitHub Pages Vercel.
- Participated in mock interviews and contributed to code reviews feedback sessions.
- Completed a Software Engineering Fellowship.

03/2025 – present

Game UI/UX designer

Lahore, Pakistan

UET Game Studio

- I designed a casual game style UI for games like color hunt, swipe rush
- Designed 3D games like AR game
- Minimalistic style 3D games like tower defence
- Designed a fantasy game like Yanchi shilock

06/2024 – 07/2024

Web Dev Trainee

Ustadam

- Engaged in a rigorous professional training course on web development that covered essential technologies such as .NET Framework and postgre sql; applied skills to optimize project workflows, reducing development time by 15
- Built projects demonstrating React.js, Node.js, and database management.

09/2024 – 05/2025

Teaching Assistant

Lahore

UET, Lahore

- Assisted in Programming Fundamentals (PF) and Object-Oriented Programming (OOP) courses.
- Conducted mentorship sessions for students, covering C++, JavaScript, and problem-solving techniques.

10/2024 – Present

Executive Member

Lahore

MLSA, UET Lahore

- Assisted in Conducting technical workshops and community events.
- Assisted peers in learning Computer concepts.

Education

09/2023 – 05/2027

BS in Computer Science

Lahore

University of Engineering and Technology, Lahore

- GPA: 3.84/4.0

Skills

Technical Skills



- **Frontend Development:** HTML5, CSS3, JavaScript, React.js, Tailwind CSS, Bootstrap
- **Mobile App Development:** React Native
- **UI/UX Design Tools:** Adobe Illustrator, Adobe XD, Figma, Photoshop
- **Backend Basics:** Express.js, Node.js
- **Database Systems:** JSON Storage, Binary File Systems, B-Trees, ACID Transactions
- **Machine Learning:** Scikit-learn, Random Forests, Joblib
- **Web Deployment:** GitHub Pages, Vercel
- **API Integration:** REST APIs, Gemini API
- **Version Control:** Git & GitHub
- **Tools & Platforms:** Streamlit, Postman, VS Code

Soft skills



- Creative Problem Solving
- UI Consistency and Usability Thinking
- Collaborative Teamwork
- Fast Learner & Adaptable
- Time Management
- Attention to Detail
- Communication & Presentation Skills

Projects

03/2025 – 04/2025

M-Bot

A rule based mobile chatbot app (<https://github.com/Sumairahafeez/Chatbot>)

- Developed a rule-based chatbot mobile app using **React Native** for the frontend and **Express.js** for the backend.
- Designed and implemented a mobile-friendly UI to ensure smooth user interaction.
- Utilized an **in-memory database** to store and manage chatbot rules efficiently.
- Packaged and built a **deployment-ready APK** for Android distribution, showcasing end-to-end mobile development skills.

05/2025 – 06/2025

ZenGauge

An AI chatbot that predicts student Mental health

(<https://github.com/Sumairahafeez/mental-health-chatbot>)

- Developed a Student Mental Health Predictor System using a Random Forest model to analyze input data and provide accurate mental health predictions.
- Designed an intuitive UI with Streamlit (Python) for easy user interaction and deployed the trained model using Joblib for scalability.
- Integrated Gemini API to deliver AI-based therapy suggestions and personalized mental health recommendations, enhancing the system's effectiveness and user support capabilities.

05/2025 – 06/2025

FileCrypt

A secure encrypted File sharing system

- Designed and developed a secure file sharing system using the XOR encryption algorithm, enhancing data confidentiality.
- Created a cyber-themed UI for an intuitive and futuristic user experience.
- Implemented a peer access control mechanism that strengthened security and improved file access management.
- Used railways for deploying frontend and backend

02/2025 – 06/2025

COSMIC DB

A document based Database management system

- Built a fully functional database system in Python with support for core **ACID properties** to ensure reliable transactions.
- Implemented a robust **Transaction Manager** and developed features for consistent read/write operations.
- Used a **binary disk file storage system** for persistent data handling.
- Designed and integrated a **B-Tree indexing mechanism** to enable efficient data retrieval and maintain performance across large datasets. Demonstrates strong understanding of database architecture and low-level data management.

Solitaire Royale

A solitaire game using Data structures (github.com/Sumairahafeez/Solitaire-Game)

- Developed an interactive Solitaire game using React.js and Tailwind CSS. Implemented state management for Tableau, Foundations, Stockpile, and Move Logic. Improved rendering performance by handling deeply nested structures dynamically
- Tools Used: React.JS, Tailwind css, Data structures

Xpense Tracker

github.com/SherMuhammadgithub/projec

- Architected a responsive Expense Tracker app utilizing React and SQLite technologies; facilitated team collaboration on the project as most junior member while enhancing usability with intuitive design features.
- Tools Used: React.JS, Tailwind css, sql lite

PathPilot

Tourist-Guide System (github.com/Sumairahafeez/Tourismguide)

- Developed a tourist guide app where locations are categorized using trees. Used web scraping techniques to fetch location details from a CSV dataset.
- Tools Used: PyQt, openstreetAPI, matplotlib, networkx

MissionCtrl

An Air force Management System

(<https://github.com/Sumairahafeez/Airforce-Managemen-system>)

- Developed a winform application based on object oriented programming concepts. Used three tier architecture and mssql for carefully integrating and managing the system within airforce.
- Tools Used: C, winform, MSSQL

Technologies

Languages

- C++
- C#
- python streamlit, scikit, pandas, Pyqt

- MSSQL, MongoDB, In- memory database
- JavaScript.
- Assembly language, arduino assembly

Technologies

- .NET, winform
- REACT , VITE, React native, EXPRESS JS
- Tailwind CSS, bootstrap,
- CSICO, KALI LINUX

Certificates

AI Engineer explorer certificate

A udemy course on AI basics by Jet Academy

AI workshop

Attended an AI workshop held by Tech nexus

MSSQL

Level 1 certificate at Great learning Academy

MONGO DB

Level 1 at Grreat learning Academy

Programming competition

Certificate of participation at Problem solving programming competition and quiz competiton at Codex 2.0 held by software square