Anas Shafiq

Lahore, Pakistan

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Education

Punjab University College of Information Technology   Dec. 2022 – June. 2026
Bachelor of Science in Software Engineering | CGPA: 3.32   *Lahore, Pakistan*

Experience

Codeclever | *Software Engineer Intern*   June. 2025 – August. 2025
- Contributed to SalesDyno, an internal dashboard designed to optimize company-wide operational tracking and data management.
- Implemented a geolocation-based attendance system using the Google Maps API, automating employee check-ins via real-time coordinate detection.
- Optimized frontend performance by refining React state management and component lifecycle methods, resulting in a more responsive user experience.
- Facilitated seamless data integration by collaborating with backend teams to consume and validate complex RESTful APIs.

Projects

Multimodal Visual Question Answering System | *PyTorch, BLIP, CLIP, React, Python*
- Developed a generative AI system to answer complex natural language questions about images using BLIP and CLIP frameworks.
- Achieved 80% test accuracy on the VizWiz VQA dataset by engineering a cross-attention feature fusion layer to align visual and textual embeddings.
- Built a custom training pipeline featuring Vision Transformers, stratified data sampling, and automated performance checkpoints.
- Built an interactive web dashboard using React, enabling real-time image-to-text generative responses for accessibility use cases.

Diabetes Care App | *React, Python, Machine Learning*
- Developed an intelligent health application that recommends medicines based on patient vitals and provides personalized explanations for each recommendation.
- Collaborated with a doctor to design and validate the medicine recommendation logic, ensuring medical accuracy and reliability.
- Implemented data driven algorithms to analyze vitals such as blood sugar, blood pressure, and BMI for recommendations.
- Built a user friendly dashboard for patients to log vitals, view recommendations, and track their medication history.

Financial Analytics & Expense Tracker | *React, ASP.NET Core, PostgreSQL, Chart.js*
- Developed a tool to simplify personal finance by automating data entry via OCR receipt scanning and category based budget planning.
- Implemented JWT tokens for secure user sessions and protected API endpoints.
- Designed the PostgreSQL backend to efficiently aggregate monthly and yearly data for visual reports using Chart.js.
- Built a reporting engine that converts user spending data into downloadable Excel and PDF documents.

RecruitPro | *Final Year Project* | *FastAPI, React.js, Langchain, PostgreSQL, ChromaDB*
- Designed and developed an AI-based recruitment system that automates job posting, resume screening, interview scheduling, and offer management.
- Implemented semantic resume matching using spaCy and Sentence BERT for accurate candidate and job alignment.
- Integrated Google Calendar, Meet, Gmail, and LinkedIn APIs for seamless communication and scheduling.
- Enhanced HR efficiency and candidate experience by reducing manual workload and streamlining the entire hiring lifecycle.
- Collaborated in an agile team using GitHub and Jira, managing feature branches, sprints, and issue tracking for efficient development.

Technical Skills

Languages: Python, C, C++, C#, Kotlin, HTML/CSS, JavaScript, SQL

Developer Tools: VS Code, Visual Studio, Android Studio, Google Colab, Git/Github, Jenkins

Technologies/Frameworks: ASP .Net, React.js, FastAPI, Blazor, Bootstrap, SQL Server, Pytorch, Streamlit, Pytest, Unittest

Leadership / Extracurricular

ScholarUp Funds   Sep. 2023 – Jan. 2025
Head of Coordinators   *PUCIT*
- Spearhead efforts to collect donations that help cover the tuition fees of deserving students, ensuring they can pursue their education without financial burdens. Managed the board of 5 members and ran weekly meetings to oversee progress.
- Efficient management of volunteers, coordinating their efforts to maximize our impact and provide effective support to students in need.