

Areesha Amir

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Summary

I'm a passionate Computer Scientist driven by problem-solving, research, and real-world innovation. With expertise in full-stack development including React, Node.js, MongoDB, PostgreSQL, SQL, and Firebase. I build robust applications that integrate strong front-end design with scalable back-end systems. My core focus lies in artificial intelligence and machine learning, particularly natural language processing, Transformers, LLMs, and RAG pipelines. I've developed intelligent solutions that tackle practical challenges through algorithmic thinking. Alongside my technical background, I bring creativity through 3D animation, digital art, and thoughtful UI/UX, blending logic and design to craft impactful, user-centered experiences.

Education

Habib University

BS in Computer Science

3.80 2021 - June, 2025

Aga Khan Higher Secondary School

Intermediate

A+ 2019 - June, 2021

The Mama Parsi Girls' Secondary School

Matric

A+ 2010 - June, 2019

Projects

Musafir - An All in One Web Application for Pakistan Tourism

- React based web application made in collaboration with PTDC offering AI powered itineraries and recommendations. Award-winning CS Research.

Recipe Rasoi: Pakistani Recipe Recommendation

- A web app that uses a cross-encoder model to recommend Pakistani recipes based on available ingredients, regional preferences, and recipe types.

AI-Powered Resume Screener and Job Matcher

- A web-based tool using NLP and machine learning to analyze resumes, identify skill gaps, and provide job recommendations and real-time job scraping for efficient hiring.

SkinAura: RAG Chatbot for Women of Color

- A skincare chatbot using RAG. Including FAISS as a retriever and a frontend for ingesting updated data.

Creating an AI agent for Color Wars

- A project incorporating AI agents including Genetic Algorithm, Ant Colony Optimization, Fuzzy Logic and Q-Learning.

Skills

Programming

- Proficient in: Python, C, C++, Latex, Verilog, CSS, .NET, Express, Node JS, JavaScript

Language

- Urdu (Native)
- English (Full Proficiency)

Others:

- Blender 3D Animation
- Canva
- Tableau
- MS Office
- Illustration
- Streamlit
- FastAPI
- React JS

Achievements

HU TOPS Scholar

- Studied on a 100% merit based scholarship at Habib University.

Dean's Honor List Fall 2023, Spring 2024-25, Fall 2024

- Secured a top 10% GPA in the Computer Science program.

First Runner's Up, IFTP Texas A&M University 2024

- Invent for the Planet international competition's First Runner-Up in HU, demonstrating problem-solving and collaboration in tackling global challenges.

Call for Art Winner, HBL Microfinance Bank 2025

- Winner of a cash prize for creating a diverse and innovative art piece in a national competition.

Work Experience

AI/ML Engineer - Startup PVC (USA)

- Working across multiple teams for AI ML project components. Worked on ML training for US Real Estate, Budget Forecasting, AI LMS systems.

SWE - Disrupt

- Worked directly with the founder to develop a recruitment chatbot using RAG agents, researched business value, and designed wireframes to align AI capabilities with product goals.

AI/ML Associate - Jaffar Business Systems

- Worked on developing, optimizing, and deploying machine learning models while collaborating on AI-driven projects.

Frontend Development Intern - Securiti

- Developed an event polling system using React framework and Firebase at Securiti.ai

Summer Tehqiq Researcher - GSCP

- Developed a machine learning system to automate resume screening, extracting key candidate data like skills and experience.

Teacher's Assistant - Habib University

- Assisted in labs, held office hours, and conducted recitation sessions for Operating Systems, Discrete Math and Nature of Computation courses.