

# Ahmad Raza

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## Achievements

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- **Section Leader (mentor) at Stanford CIP'25** Selected as Section Leader (mentor) out of 2000+ applications for teaching and mentoring international students virtually and voluntarily, at least 4 per week. [[Email](#)]
- **Finalist Team in Edge Runners International Hackathon (Sweden)** Selected finalists out of 2420 members and 126 teams, and our project ranked in top 5. [[View Email](#)]
- **Ranked in my session with top GPAs** Ranked as top student of our session securing the highest GPA of 3.84/4.00 with CGPA of 3.82. [[View DMC](#)]
- **Meta Hacker Cup** -Ranked 2,294th out of 13,262 international contestants in the Meta Hacker Cup Practice Round 2024 and ranked 7730th out of 22,100+ international Contestants in round-1.[[View Certificate](#)]
- **350+ LeetCode Questions Solved** demonstrating analytical thinking, problem-solving skills and significantly enhanced my logical reasoning also elevated my ability to tackle complex challenges. [[View Profile](#)]
- **100% Scholarship in Intermediate** Got 100% scholarship in intermediate.
- **Mentored 3-Day Wordsprint Developer Hackathon 5.0** organized by iCodeGuru in collaboration with WPBridge. [[Certificate](#)]
- **Global Nominee in NASA Space App Challenge** Out of 15,000+ teams and 95, 000+ members, our team is selected in 940 global nominees. [[Profile](#)]
- **Delivered a Session on RAG[AI] to PEC Non-technical Engineers** Delivered a lecture on RAG to 5500+ non-technical engineers, a session organized by Pakistan Engineering Council in cooperation with the Pakistan Silicon Valley, CA community. [[Recording](#)]

## Education

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**University of Engineering and Technology**

BS Software Engineering. CGPA: 3.82/4.00

Lahore, Pakistan

September 2023– Present

## International Competitions and Hackathons

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### Lablab.ai Hackathons

Stockholm,Sweden (Remote)

- Prototyped **Explosion Search** in **Edge Runners**, which reduces computational power for conversions of tokenizers.Out of 2420 members & 126 teams, selected as finalists and our project ranked in top 5. [[View Email](#)]
- Collaborated with an international team in the AI Startup **hackathon**, built **Volund-An AI ChatBot**.
- Participated in **Llama 3.2 hackathon** and developed **Fillipy** withLlama 3.2 models. Helps in filling the PDF forms.
- Attended **Falcon Hackathon** & developed **Medicano** using Falcon LLM, Python, Google Map API, a web application provides medication, diagnosis, nearby pharmacies, health blogs & alternatives of the medicine.
- Contributed by developing REST APIs with Django in Generative-AI Hackathon for a web app **AW Wingman**.
- Created **Llamario** in Edge Runners 3.2, for image processing and social media content generation. [[Certificate](#)].
- Built **SkillBridge**, an app for preparation of interviews based on resume, analysis of resume & career suggestions based on skills. Also developed **Cultural Genie** for travelers to know the cultures of different countries.
- Designed **VS Code extension** using CamelAi for agents, Jinaa model for embeddings, DeepSeek for searching, Quadrant as vector database with an international team of 6 in **DeepSeek Hackathon**. Contributed by developing embeddings for 30+ languages, and also documenting the feature. [[View Site](#)]

### NASA Space Apps Challenge

Washington, US (Remote)

- Worked with an International team from Honolulu, US on lunar & mars earthquake's correct data modeling. Where we trained our model on NASA's provided dataset.

- Contributed by creating a **Demo App** by using a model from huggingFace. [[Certificate](#)]
- Out of 15,500+ teams and 95,000+ participants, we ranked among the top 940 global nominees. [[Profile](#)]

## Meta Hacker Cup

Menlo Park, California (Remote)

- Participated in Meta Hacker Cup, ranked at **2293th** out of 13,300+ participants in the practice round. Proceeded to Round-1 and ranked **7730th** out of 22,100+ participants and solved 1 problem out of 5. [[Certificate](#)]

## CALICO Contest

University of California, Berkeley (Remote)

- Participated in UC-Berkeley CALICO, ranked at **198th** out of 865 teams and solved 7 problems out of 11, got a score of 503.

## Experience

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### CodSoft -C++ Developer

Remote - Kolkata, India

- Developed and enhanced skills in Object Oriented Programming C++
- Contributed to projects involving advanced OOP concepts, demonstrating strong analytical and problem-solving abilities. [[Certificate](#)]

### Generative-AI

- Completed 10+ AI and 3 RAG projects using different LLMs, Libraries and APIs.
- Certified for Essentials of Generative-AI from California, US. [[View Certificate](#)]
- Delivered a workshop on RAG app to 70+ participants. [[View Google Colab](#)]
- Built **Language Translator** by using transformers, streamlit for frontend and pytorch. [[View Here](#)]
- Developed a RAG based application to read user PDFs and to answer user's queries from that PDF using the RAG based model of LLAMA, and LLaMA-2 model from Hugging Face to create coherent text. [[View Here](#)]
- Developed an AI app for children named **Chilidron** using pytsx3, torch and gtts. [[View Here](#)]
- Developed **CulturalGenei** which gives cultural insights, **Llamario** for image processing & content generation, Volund, StudySage, **ReceiptBanao** for generating receipt based on daily eatables, **Clienviron** for blogs and **Chilidron** -an AI app for childrens.

## Technical Skills

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<b>Programming Languages</b>	C/C++, Python, C#, react, JS
<b>Libraries</b>	Streamlit, Pandas, Numpy, Matplotlib, Guno, Bunifu, fs, multer
<b>Frameworks</b>	node.js, express.js, react.js, .NET
<b>Web &amp; Database</b>	SQL, SQL server, MongoDB
<b>Version Control</b>	Git, Github
<b>IDE</b>	Visual Studio, VS Code

## Leadership Work

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- Led a team of International members in **Falcon Hackathon** and developed **Medicano** -a health based chatbot.
- Guided a team of my peers on a C# project, where I presented the idea of a **Tuition Management System**. The concept stemmed from my 4+ years of experience as a tutor, addressing many of the challenges I encountered during that time.

## Volunteer Work

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- Delivered a workshop on the **module** “[How to develop a RAG application](#)” organized by iCodeGuru and Aspire Pakistan, Silicon Valley, US. [[Recording](#)]

- Developed and explained Retrieval Augmented Generation app using Ollama's llama3 model from Langchain with gradio for frontend on google colab to 70+ active participants, overall 250+ viewers on YT. [[View Google Colab](#)]
- Moderating a session on IELTS for 6 weeks, where we are covering Listening, Speaking, Writing modules.
- Mentored WordSprint Hackathon 5.0 organized by iCodeGuru in collaboration with WPBrigade and addressed the problems participants were facing during this 3 day hackathon. [[Certificate](#)]
- Delivered a lecture on RAG motivation, working, flow control to **5500+ non-technical** engineer's cohort organised from **Pakistan Engineering Council** in cooperation with iCodeGuru in operation from Silicon Valley. [[Recording](#)]

## Academic Projects

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- Created an **AirLine Management System** using tech stack as **C#, .NET and ASP.NET** and **mongoDB** as Database. Added functionalities, like bookings, cancelation, clearances, customer registration and confirmation, flights addition & removal, and some settings options. Also added WCF Service for asynchronous use of this application.
- Created a Partially Implemented **University Management System** using **C++[DSA]** and **File Handling**. Where used graphs for departments routes & subject's prerequisites sequence. Trees for the data storage, stack for scholarship and grades, and queue for implementation of BFS in graphs.
- Implemented a detailed **Learning Management System** using **C++, OOPs**, where added attendance, grades, departments, students information like joined clubs, faculties, scholarships, courses, university's events, faculty's feedbacks, library resources and others.
- Developed **Car Rental Management System** using **C++, structs, I/O files** as a semester project for selection of cars, rent management, invoicing, vehicle presence & customer transactions, payments.

## MERN Stack Projects

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- Created an E-Commerce App **Scatch** using tech stack as **NodeJS, ExpressJS, HTML, CSS** and **mongoDB** as Database. Added functionalities, like add to cart, cancelation, checkout feature, customer login, signup and upload products page for admins. Added authorizations and authentication.
- Contributed to an international team in a hackathon, managed the complete backend development for the project **SkillBridge**. Presented this skilbridge project in an open mic event as well, organized by a professor who joined us from university of **California, US**. [[Recording](#)]
- Developed a **Social Media App**, implemented the features of post creation, update and deletion - friends request acceptance, rejection, send to others and CRUD operation comments as well.
- Created a project, where I implemented all my concepts, related to professional structure, authentications, etc.