AHMAD SULTAN
SOFTWARE ENGINEER AND TECH TRAINER

+92 302 051 1167 | ahmadjajja86@gmail.com | LinkedIn | GitHub | Website | LeetCode

ACHIEVEMENTS

- *@Harvard University(CS50x_PuzzleDay_Winner):* Our team won 1st place at CS50x Puzzle Day 2024 by solving 9/9 complex puzzles.

- *Duolingo English Test:* Successfully Obtained 125/160 Score(Which is equivalent to IELTS 6.5 or higher bands).

- *@GitHub:* Top 10th Pakistani GitHub contributor with 600+ days of coding consistency and numerous achievements.

- *@Stanford University(Code_in_Place):* Selected as a Section Leader to teach Python to 100+ international students.

- *@SMIT:* Trained 1,000+ students in different programming languages and technologies.

- *@leetcode:* Solved 300+ Data Structures and Algorithms problems.[Github link]

- *@lablab.ai:* Participated in multiple AI International Hackathons and won one of them (Unhallucinate Challenge).

- *Guest Speaker at WordSprint Hackathon 3.0:* Gave a talk on "Bridging the Gap: From Coding Basics to Real-World Solutions".

- *Fully-funded scholarship:* Recipient of merit-based fully-funded scholarship in bachelors.

TECHNICAL SKILLS

- *Programming Languages:* C, C++, Dart, Java, Python, JavaScript (ES6+), TypeScript
- *Web Dev:* HTML5, CSS3, SCSS, SASS, Bootstrap 5, Chakra UI, Ant Design, React JS(Context API, Router, State Management)
- *Mobile Dev:* React Native
- *Backend:* Firebase, Node JS, Express JS, Python, Flask, Django
- *AI:* Generative AI, LLMs, RAG (Vectara)
- *Version Control:* Git, Github
- *APIs:* Rest-APIs, GraphQL
- *Databases:* MongoDB, Firestore

EDUCATION

The University of Agriculture, Faisalabad   Sep 2020 - Jun 2024

CGPA: 3.35 / 4.00

- Bachelor of Science in Computer Science

FINAL YEAR PROJECT

AI Podcast Generator | *HTML, CSS, Bootstrap5, Javascript, React, firebase, Generative AI, LLMs, python* | [Github link]
- Created an AI platform to turn text articles and youtube videos into audio podcasts.
- Used Python, OpenAI, and ElevenLabs for content and voice synthesis.
- Designed a user-friendly interface with secure Firebase authentication & Enabled customizable voice options.

WORK EXPERIENCE

Co-Founder & Dev Lead   Feb 2024 – Present
EcoFactor   *São Paulo, Brazil · Remote*
- EcoFactor uses AI to boost manufacturing sustainability and efficiency, guiding eco-friendly practices and optimizing workflows.[See Software]
- As a Dev Lead, my focus is on the development side of our project ecofactor. I'm handling front-end, AI integration, and backend with my team. We, as Dev members, are working collaboratively on this project.   [See CEO Review]
- EcoFactor currently consists of a team of 7 members: 4 from Pakistan, 2 from Brazil, and 1 from Latvia.[see team website]
- Utilizing these technologies to create EcoFactor: HTML, CSS, Bootstrap 5, JavaScript, React, Python, Flask, LLMs, Vectara, RAG.

Tech Trainer   Dec 2022 – Present
Saylani Mass IT Training Program   *Faisalabad, PK*
- Trained 1000+ students to learn programming, DSA(LeetCode), web and mobile app development, and software engineering skills.
- Programming Languages and Technologies : HTML, CSS (Bootstrap 5), JavaScript (ES6), TypeScript, DSA(LeetCode), React JS (Context API, Router, State Management), Next.js, NodeJS (ExpressJS, Authentication, API Endpoint Handling), NPM, MongoDB, Firebase, and React Native.
- Hosting Platforms: Surge, gh-pages (GitHub Pages), Netlify, Vercel, and Firebase.
- See students' reviews about how I impacted their coding(Development) journeys: (Student1), (Student2), (Student3) and many more.
- Students received training from me via these courses. See Github Repositories:
  - * Full Stack Development,   Frontend Web Development,   Frontend Mobile Development
  - * Backend Development,   Web Designing Bootcamp B1,   Web Designing Bootcamp B2
  - * AI Chatbot

MERN Stack Developer   Sep 2022 - Mar 2023
ZW Tech   *Faisalabad, PK*
- Modified React JS front-end for UAE recruitment business website, resembling LinkedIn.
- Developed Node.js-based GraphQL APIs, enhancing data management and integration for Dashboard.
- Led the Desgning team and collaborated with product managers, business partners, and engineers to help define product requirements and roadmap .

MERN Stack Developer   May 2022 - Aug 2022
Seeraht   *Faisalabad, PK*
- Developed and maintained MERN web apps at Seeraht, prioritizing quality, scalability, and efficiency.
- Collaborated with cross-functional teams, implementing complex software features using modern development techniques.
- Experience in integrating web applications with third-party APIs and services.

VOLUNTEER EXPERIENCE

Section Leader Mentor   Apr 2024 – Jun 2024
Stanford University: Code in Place   *California, United States · Remote*
- Selected as a Section Leader for Stanford's Code in Place to teach Python to international students in groups of 10-15.
- Later, I was promoted to Section Leader Mentor for one-on-one student support and taught 56 TeachNow sessions.
- I helped 100+ international folks worldwide, including countries like the USA, Canada, Russia, the UK, India, Bangladesh, Brazil, Germany, and others.

Trainer and Moderator   Feb 2023 – Present
iCodeGuru   *Santa Clara, California · Remote*
- Offered volunteer teaching in Python and DSA at iCodeGuru, emphasizing LeetCode.
- Taught course on the Duolingo English Proficiency Test.
- Delivering "Machine Learning from Scratch & Its Privacy Implications" training to underprivileged students.
- Conducting weekly workshops especially to help underprivileged students to learn freely.[See here]
- See students' reviews about how I impacted their coding(DSA + LeetCode) journeys : (Student1), (Student2), (Student3) and many more.

HACKATHONS AND COMPETITIONS

Harvard's CS50x Puzzle Day 2024 | [LinkedIn link]
- Led a 5-member team to 1st place at Harvard's CS50x Puzzle Day 2024.
- Solved 9 complex puzzles using deep logical thinking and teamwork.
- Collaborated with international members from Greece, Nigeria, and Pakistan.

Neue View | *HTML, CSS, Bootstrap5, Javascript, React, Open AI Model GPT-3.5 Turbo, OCR, Trulens, Pinecone, python, Flask* | [Github link]
- AI-Powered Web-Based OCR Solution for Digitizing and Analyzing Handwritten Information.[LinkedIn link]
- The Neue View Project involved a team of six individuals from United States and Pakistan.The [lablab.ai submission link]
- Managed the whole development project.

- Senior dev: frontend Design, backend design(rest api's creation using python and flask), backend and AI integration.

Full Stack Real Estate Mobile App | *Javascript, ReactNative, Redux, ContextAPI, NodeJS, ExpressJS, MongoDB* | [Github link]
- Participated in a national hackathon at Saylani Mass IT Training Program in August 2022.
- Project with authentication, dashboard, property management, searching, browsing and call-to-action feature for property tansactions, powered by REST APIs using Node JS.

Coding Competitions
- Qualified for : "Google Code Jam 2023 and Meta Hacker Cup 2023".

PERSONAL PROJECTS

Plant Disease Detection System | *Python (Flask, TensorFlow, Keras, OpenCV, Pillow, NumPy, Matplotlib, Seaborn)* | [Github link]
- Developed and deployed a Flask web application to detect plant diseases from leaf images using a trained convolutional neural network (CNN).
- Preprocessed and augmented a comprehensive dataset of plant leaf images, categorized into healthy, powdery mildew, and rust classes to enhance model accuracy.
- Designed and trained the CNN model using TensorFlow and Keras, achieving high accuracy in classifying plant diseases.
- Implemented image processing techniques with OpenCV and Pillow to handle image uploads and preparation for prediction in the web application.

Full Stack Bank WEB APP | *HTML, CSS, Bootstrap5, Javascript, React, Context API, Firebase, Firestore* | [Github link]

- Bank-App is a web application allowing users to manage accounts, perform transactions, and view transaction history conveniently.[Live link]

Full Stack E-Commerce Mobile App | *Javascript, ReactNative, Redux, ContextAPI, NodeJS, ExpressJS, MongoDB* | [Github link]
- E-commerce mobile app with user registration, product catalog, cart, wishlist, checkout, payment, order tracking, and admin dashboard.

REFERENCES

Dr. Zafar Shahid | *Technical Lead/ Staff Engineer @Meta* | LinkedIn
- *Email:* zafar.shahid@acm.org
- *Phone:* +1 512 239 8008
- *Location:* Santa Clara, California, United States

Dr. Rizwan Ghaffar | *Principal Engineer @Broadcom Inc.* | LinkedIn

- *Email:* rizwanghaffar24@gmail.com
- *Phone:* +1 858 216 5405
- *Location:* San Jose, California, United States

Bruno Cesar | *Senior UI/UX Designer, Creative ChatGPT Researcher, Prompt Engineer and Teacher.* | LinkedIn

- *Email:* alecrim.bruno@gmail.com
- *Phone:* +55 21 99997 3045
- *Location:* Rio de Janeiro, Brazil

Pariphat SInma | *Product Designer, Design Innovator Bridging Emerging Technologies and Brands Globally* | LinkedIn

- *Email:* pariphat.s@gmail.com
- *Phone:* +1 224 382 3483
- *Location:* Chicago, Illinois, United States

Wajeeha Azmat | *Lecturer at University of Agriculture, Faisalabad* | LinkedIn

- *Email:* wajeeha.azmat@uaf.edu.pk
- *Phone:* +92 303 402 9300
- *Location:* Faisalabad, Pakistan