

# AHMAD SULTAN

## SOFTWARE ENGINEER AND TECH TRAINER

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### 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 29th 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).
- [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: 3.36 / 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 for personalized podcast creation.

### 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 Designing 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.
- 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 transactions, powered by REST APIs using Node JS.

### Coding Competitions

- Qualified for : “[Google Code Jam 2023](#) and [Meta Hacker Cup 2023](#)”.

## PERSONAL PROJECTS

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**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

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**Dr. Zafar Shahid** | *Technical Lead/ Staff Engineer @Meta* | [LinkedIn](#)

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