



## Abdul Rafay

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**Home:** 54000 Lahore (Pakistan)

### ABOUT ME

Passionate Software Engineer with a deep-rooted love for tech, having developed apps since the age of 14. Specializing in web development and AI, I've delivered impactful projects like CollabPro, 3D-VTON, and an AI-driven decision tool at Echo Technologies that boosted efficiency by 20%. My expertise includes Python, JavaScript, React, and Next.js, and I always ensure top-notch UI/UX in my solutions. I bring strong problem-solving skills, a commitment to best practices, and a focus on delivering high-quality, user-friendly applications.

### WORK EXPERIENCE

#### **Dev Entities** – Lahore, Pakistan

City: Lahore | Country: Pakistan

##### **Lead AI Engineer**

[ 03/2025 – Current ]

- Leading development of AI solutions, including real-time voice assistants, RAG systems, and LLM-integrated apps using Python, FastAPI, and LangChain.
- Architecting and deploying scalable data pipelines and AI infrastructure using Docker on Linux servers.
- Building and maintaining full-stack applications with React and Next.js integrated with AI backends.
- Overseeing end-to-end AI project delivery while actively contributing to code, architecture, and system design.
- Mentoring developers, conducting code reviews, and aligning technical strategy with product goals.
- Implementing custom web scraping tools for data collection, model training, and retrieval systems.

##### **Full-Stack AI Engineer**

[ 06/2024 – 03/2025 ]

- Developed advanced AI applications, including chatbots, real-time voice assistants, predictive systems, and RAG-based solutions, using Python, FastAPI, and LLMs to optimize performance and user interaction.
- Created web scrapers tailored for specific needs, including RAG-compatible data extraction, to support AI model training and enhance system accuracy.
- Managed Linux server environments with Docker, ensuring scalability and reliability for AI and scraping workloads.
- Designed and integrated responsive web applications using React and Next.js, connecting AI backends and RAG systems for seamless, high-quality user experiences.
- Collaborated with teams to deliver robust AI solutions, leveraging LangChain, web scraping pipelines, and rigorous testing to meet project objectives.

#### **Echo Technologies** – Remote, Germany

City: Remote | Country: Germany

##### **Software Engineer**

[ 08/2023 – 01/2024 ]

- Developed an AI LLM tool for a TV warehouse company, increasing customer decision efficiency by 20%.
- Conducted API testing on Wise and Currency Cloud. Implemented best practices in responsive design and UX/UI, improving user experience.
- Collaborated with development team members to design and develop scalable solutions using industry trends.
- Communicated effectively with team members to resolve issues and improve teamwork.

 **Riphah International University** – Lahore, Pakistan

Address: 13 km Raiwind Rd, Chamru Pur, 54000 Lahore (Pakistan)

### Assistant lecturer

[ 10/2023 – 06/2024 ]

- Taught Programming Fundamentals and DSA to 3 Batches.
- Organized and supervised lab sessions, ensuring a productive learning environment.
- Conducted tutorial sessions to reinforce key concepts and facilitate student learning.
- Emphasized the development of analytical skills in students through practical exercises and projects.

## EDUCATION AND TRAINING

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### Bachelors in Computer Science

**Riphah International University** [ 15/10/2020 – 02/07/2024 ]

Address: 13 km Raiwind Rd, Chamru Pur, 54000 Lahore (Pakistan) | Website: [riphah.edu.pk/home-lahore](http://riphah.edu.pk/home-lahore)

## LANGUAGE SKILLS

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**Mother tongue(s):** Urdu

**Other language(s):**

### English

**LISTENING C2 READING C2 WRITING C2**

**SPOKEN PRODUCTION C2 SPOKEN INTERACTION C2**

*Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user*

## SKILLS

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### Languages

Python / C++ / JavaScript

### Frameworks

Streamlit / Python FastAPI / Next JS / React JS. / React Native / LangGraph / LangChain

### Development Tools

Git / GitHub / Docker / Postman

### Databases

Firebase / Mongoddb / Mongoose / MySQL / Postgres

## PROJECTS

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[ Current ]

### CollabPro - Unified Collaboration Software (React Js, React Native, TailwindCSS, Firebase)

- Developed a unified collaboration platform integrating functionalities of Trello, Asana, and Slack.
- Ensured scalable architecture and responsive design for cross-platform usability.
- Adapted with a cross-functional approach to implement new features.
- Applied Version Control using Vercel and GitHub.

Link: [collabpro-v1.vercel.app](http://collabpro-v1.vercel.app)

### Fintech Application in React Native (React Native, Expo, TailwindCSS, Firebase)

- Developed a Fintech application with complete UI, including features like Barcode Scan and Bank Cards.
- Applied UX/UI principles to enhance the application's user interface and experience.
- Used version control systems for project management and collaboration.

Link: [github.com/ABRjrocks/FinTech-App-Using-React-Native](https://github.com/ABRjrocks/FinTech-App-Using-React-Native)

#### **Face Recognition Attendance System (Python, LBPH, cv2, Harcascade, MySQL)**

- Created a face recognition attendance system using Python (LBPH, HaarCascade, cv2) and MySQL.
- Implemented scalable database solutions for efficient data handling.

Link: [github.com/ABRjrocks/Face-Recognition-Attendace-System](https://github.com/ABRjrocks/Face-Recognition-Attendace-System)

#### **RHA - University Management ERP (HTML, CSS, JS, Bootstrap, PHP, MySQLi)**

- Utilized HTML5, CSS3, PHP, MySQLi, and JavaScript to develop and enhance web applications.
- This project comprises 4 modules (Teachers, Students, Courses, Timetable).
- Ensured responsive design and scalable architecture for seamless user experience across devices.

Link: [github.com/ABRjrocks/RHA-ERP-HTML-CSS-JavaScript-PHP](https://github.com/ABRjrocks/RHA-ERP-HTML-CSS-JavaScript-PHP)

#### **AV - AI LLM to assist in TV Buying Assistance (React Js, TailwindCSS, LangChain, Django)**

- This project was created to assist a TV Warehouse in Dublin where workers could use the LLM to assist the TV selection Process.
- Implemented best practices in responsive design and performance optimization using Webpack.
- Collaborated with stakeholders to align the project with business goals.

Link: [github.com/ABRjrocks/AV-Client-Frontend-React-Tailwind](https://github.com/ABRjrocks/AV-Client-Frontend-React-Tailwind)

## **HONOURS AND AWARDS**

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[ 25/04/2024 ] Riphah International University

**Riphah Acknowledgement Award 2024**

## **CERTIFICATIONS**

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#### **AWS Academy Graduate - AWS Academy Cloud Foundations**

Link: [credly.com/go/ZpMoLshu](https://credly.com/go/ZpMoLshu)

#### **Machine Learning: An Overview**

Link: [coursera.org/share/3336e961b0a8791b577b476d0c61a63b](https://coursera.org/share/3336e961b0a8791b577b476d0c61a63b)

#### **Python for Data Science, AI & Development**

Link: [coursera.org/share/c5124590bbcc80b2993a625f6e786ea6](https://coursera.org/share/c5124590bbcc80b2993a625f6e786ea6)

#### **HTML, CSS, and Javascript for Web Developers**

Link: [coursera.org/share/8668ec478cff4f36df0681f1faca434b](https://coursera.org/share/8668ec478cff4f36df0681f1faca434b)

#### **Introduction to Android Mobile Application Development**

Link: [coursera.org/share/c7d34ef1814dd317b5007853762d5efa](https://coursera.org/share/c7d34ef1814dd317b5007853762d5efa)

#### **Ethics, Technology and Engineering**

Link: [coursera.org/share/53cdca963a094511aa45fa6402ee6cb2](https://coursera.org/share/53cdca963a094511aa45fa6402ee6cb2)