Rafay Qureshi

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Education

Institute of Space Technology, BS in Computer Science   Nov 2021 – Aug 2025

Coursework: BigDataAnalysis, InformationSecurity, ArtificialIntelligence, ComputerVision, ComputerNetworking, MobileAppDevelopment, Databasesystems, Theory of Automata, Data Structures and Algorithms, Computer Organization and Assembly language, Object-Oriented Programming

Experience

Public Access Media, Contract   June 2025 – Ongoing

- Responsible for designing detailed wireframes for various domains and translating them into high-performance web applications using **Next.js** and **TypeScript**, ensuring a seamless blend of visual design and functional development.
- Implemented **reusable components** and **hooks** for efficient and scalable application architecture.
- Optimized application performance through **code splitting** and **lazy loading.**

Campusplay, Freelance – Contract   Dec 2024 – April 2025

- Developed dynamic and responsive user interfaces using **React Native**, enhancing user experience and performance.
- Implemented **reusable components** and **hooks** for efficient and scalable application architecture.
- Optimized application performance through **code splitting** and **lazy loading.**

Utopian takeoffs, Freelance – Contract   Aug 2024 – April 2025

- Worked as a **Front-End Developer** for Utopian Take Offs, designing and developing the website using **Next.js** and **Tailwind CSS.**
- Ensured a responsive, visually appealing interface while maintaining optimal performance.

CROAI, Freelance – Contract   Oct 2024 – Nov 2024

- Designed, developed, and deployed a web application for listing properties for sale using **Next.js**, supported by **Tailwind CSS** for styling and **JSON** for data handling.
- Designed and developed multiple screens in **Next.js**, ensuring a professional, seamless, and user-friendly interface with optimized performance.

Software Engineer Intern, Teresol Pvt – Islamabad   July 2024 – Aug 2024

- Developed an interactive and responsive management system using **Vue.js,** ensuring seamless user experiences.
- Implemented **state management** with **XState** to efficiently handle complex application workflows.
- Utilized **Firebase** for secure data storage and real-time synchronization in a comprehensive management system.

Software Engineer Intern, PTCL – Islamabad   July 2023 - August 2023

- Worked in the Business Intelligence department, using **SQL** for **data sorting**, **filtering**, and **organization** to support decision making processes.
- **Designed** and **optimized** SQL queries for extracting actionable insights from complex datasets.
- Collaborated with the team to streamline data workflows and ensure accuracy in reporting and analysis.

Final Year Project

Ariadne | Scene Descriptive AI

- Developed and trained an AI model for real-time scene recognition and explanation with 42% $\pm$ accuracy in text generation to aid the visually impaired. Optimized performance and integrated it into a functional hardware prototype.

  Tools Used : Ultralytics, Pytorch, Python, Kaggle, Nvidia cdnn, Colab

Skills

Programming Python(TenserFlow,Flask), C/C++, Flutter, JavaScript, SQL, Kotlin

Miscellaneous VueJS, ReactJs, NextJs, Typescript, Firebase, Xstate