

# Rafay Qureshi

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## Education

**Institute of Space Technology**, BS in Computer Science

Nov 2021 – Aug 2025

**Coursework:** Artificial Intelligence, Computer Vision, Computer Networking, Mobile App Development, Design and Algorithm analysis, Databases systems, Theory of Automata, Data Structures and Algorithms, Computer Organization and Assembly language, Object-Oriented Programming

## Experience

**Campusplay**, Institute of Space Technology – Islamabad

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.

## Projects

**Cashflow - Banking App**

- a comprehensive banking app with an interactive interface, offering all essential features. Introduced a unique savings lock feature that allows users to secure their savings and access them only in emergencies.

Tools used: Python, Native, ReactJs

**Image Description Gen AI**

- Developed an ML model for image description using a self-curated dataset of 20 million images, achieving a ROUGE score of 40% through iterative testing of 20 models.
- Designed and implemented innovative data gathering, preprocessing, and augmentation strategies to enhance model performance.
- Built custom ResNet, LSTM, and Transformer networks for detailed caption generation, ensuring seamless integration into the product for improved accessibility and user experience.

Tools Used: Python, Pytorch, Computer Vision, NLP, AI/ML, Model Architecture Designing

## Skills

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

**Miscellaneous** VueJS, ReactJs, NextJs, Firebase, Xstate