Sanjay Kumar

Software Engineer

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SUMMARY

- **Summary**: A Front-End and MERN Stack Developer, currently pursuing a Bachelor of Electrical Engineering at the National University of Sciences and Technology, Islamabad. Specialized in technologies such as ReactJS, NextJS, and Node.js, with professional experience through collaborations with companies like TruID, AlphaSquad, and Alfabolt on advanced web and mobile applications. Actively engaged in freelancing on Upwork, focusing on enhancing full-stack development expertise. Seeking opportunities to leverage my diverse skills to add value in a dynamic and innovative professional work environment.

EDUCATION

- **National University of Sciences and Technology**   Islamabad, Pakistan
  Bachelor of Electrical Engineering   *Expected June 2025*
    - **Minors:** Data Structures and Algorithms (DSA), Web Development, App Development
    - **Majors:** Object Oriented Programming, Introduction to Programming, Digital Logic Design, Digital System Design, Microprocessor Systems, Electrical Network Analysis, Linear Circuit Analysis, Linear Control Systems, Machine Learning, Computer Vision, Statistics, Calculus

WORK EXPERIENCE

- **oogoo**   Kuwait City Metropolitan Area, Kuwait
  Senior Full Stack Developer (Remote)   Jan 2025 - Present
    - **Oogoo Auction App**: Converted the Oogoo auction website into a React Native Expo application and integrated push notifications using Expo Notifications and Firebase FCM service, enabling real-time user updates and improving engagement.
    - **oogoo Car Platform**: Enhanced the performance of the oogoo Car platform by reducing database call latency. Improved query efficiency, cutting response time from 30 minutes to 10 minutes.

- **NESL-IT Software Logics**   I-10, Islamabad, Pakistan
  Senior Software Engineer   December 2024 - Present
    - **Turtled Website Revamp**: Rebuilt the Turtled website from Wix to Next.js, providing an enhanced platform for online teaching. Integrated Strapi for blog management, Calendly for scheduling meetings, and WebSockets for live communication. Utilized Supabase as the backend database. Turtled Website
    - **QuickSlip**: Developed a React Native app for guest/tenant parking pass registration. Built an admin portal using Next.js, where owners can approve or deny vehicle access. Streamlined parking management for better efficiency.
    - **Company Website Revamp**: Redesigned and optimized the official company website using modern web development practices (Wix to NextJS) to improve user experience and functionality.

- **InLights.AI, NSTP, NUST**   June 2024 - December 2024
  Software Engineer (Contract Based)
    - **InLights Official Site**: Developed the official website for InLights using Next.js and Shadcn UI library. Implemented responsive design, seamless navigation, and an elegant UI for showcasing company offerings. InLights Official Site
    - **GeoHealth**: Developed using Next.js, Tailwind CSS, Shadcn UI, and TypeScript. Utilizes MediaPipe to calculate angles for exercise form analysis. Draws color-coded lines to indicate correct and incorrect exercise forms. Allows switching between demo videos and live camera videos for real-time feedback. GeoHealth
    - **MeasureCAD**: Developed a React Native Expo app integrated with a Python backend for advanced image processing. Implemented background removal using a UNet model. Performed Canny edge and contour detection with OpenCV. Enabled object distance measurement and AutoCAD .dxf file generation using the ezdxf library. MeasureCAD

- **TruID, NSTP, NUST**   Jan 2024 - May 2024
  Associate Software Engineer(Contract Based)
  - **Askari Onboarding App**: Developed a global API function, enhanced option selection, resolved camera functionality across iOS and Android, ensured compatibility with various devices, and implemented robust file downloads. Successfully enhanced user engagement and operational efficiency by implementing versatile features and resolving platform-specific challenges. [Askari Onboarding App](#)

- **Alfabolt, NSTP, NUST**   Mar 2023 - Dec 2023
  Front-end Next/ReactJS Developer
  - **Deepreel**: Pioneered the front-end development of Deepreel's AI video generation platform and significantly enhanced user experience using Next.js, TypeScript, and Tailwind CSS. [Deepreel](#)
  - **SKYE**: Accelerated the development and scalability of SKYE's web platform by leveraging Next.js, TypeScript, and Tailwind CSS. Got in-depth knowledge of Server-side Rendering (SSR), Static Site Generation (SSG), and Storybook library for enhanced component documentation. [SKYE](#)

- **AlphaSquad, NSTP, NUST**   March 2021 - May 2022
  Front-end ReactJS Developer
  - **AlphaSquad Official Website**: Upgraded from HTML, CSS, JavaScript to Next.js, Tailwind CSS, TypeScript. Converted to Single Page Application (SPA) for faster navigation. Implemented CSS animations for spark effects. Enhanced SEO with server-side rendering (SSR) and optimized metadata. Used Tailwind CSS for responsive, efficient design. Ensured cross-browser compatibility and seamless user experience. [AlphaSquad](#)
  - **Starter Tool Kit Moda App**: Created all UI components, including loaders, buttons, modals, and rating bars. Worked on the Chart.js part of the project for data visualization. [Starter Tool Kit Moda GitHub](#)
  - **MODA Landing Page**: Gained in-depth knowledge of Swiper.js library for creating carousels for better user experience. [MODA](#)
  - **Bella Landing Page**: Tools and technologies used include Swiper JS along with React JS and Tailwind CSS. [Bella](#)

- **Upwork**   Jan 2024 - Present
  MERN Stack Developer
  - **TatsuAsk**: Implemented a bot like ChatGPT using Corcel API and saved chats on MongoDB database using Mongoose, Node, and Express. Successfully developed and deployed a conversational AI using Corcel API, enhancing user interaction and data management with MongoDB.
  - **TatsuFrame**: Implemented a fully functional mobile responsive web application which generates images from text using the MERN stack. Enhanced skills in full-stack development, particularly in creating responsive web applications that seamlessly integrate front-end and back-end functionalities.

CERTIFICATIONS

- **Front-end Developer (React)**: Earned on Hackerrank. [Certificate](#)

- **MATLAB Onramp**: Earned on MathWorks. [Certificate](#)

SKILLS

- **Languages**: HTML 5, CSS 3, JavaScript, jQuery, ReactJS, Firebase, Cloud Firestore, GraphQL, React Native, Apollo, Node.js, Express JS, NextJS, Rest APIs, Flask, FastAPI, Tailwind CSS and Bootstrap 5, C, C++, Python

- **Tools**: Git and GitHub, Jupyter Notebook, TensorBoard, VS Code, Linux

- **Soft Skills**: Problem-solving, Leadership, Teamwork, Time management

ADDITIONAL

- **Languages**: Fluent in Urdu, Sindhi, and English

- **Skills**: Research and Development, Web Development and Analysis