





Sanjay Kumar

Software Engineer

 [linkedin.com/Sanjay-Kumar](https://www.linkedin.com/Sanjay-Kumar)

 github.com/Sanjay-Kumar

 **Mobile:** +92-306-8646196

 skumar.bee20seecs@seecs.edu.pk

SUMMARY

- **Summary:** A Front-End and MERN Stack Developer with a Bachelor's degree in Electrical Engineering from 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 October 2020 - June 2024
 - **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

- **InLights.AI, NSTP, NUST** June 2024 - Present
Software Engineer
 - **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
 - **TruID Official Website:** Developed from scratch using Next.js, Tailwind CSS, and TypeScript. Implemented backend functionalities with Supabase. Utilized shadcn component library for creating beautiful components. Integrated Swiper.js for smooth sliding effects and enhanced user experience. [TruID](#)
 - **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.
- **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](#)
- **Official Website Overhaul**: Replaced Bootstrap components with Shadcn to modernize and streamline the codebase. Implemented jQuery across various pages to enhance the SPA experience. Updated design elements, including spacing, color effects, and hover effects. Added and optimized CSS animations for a dynamic user interface. Ensured cross-platform compatibility for consistent design and functionality. [Alfabolt](#)

• 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](#)

FREELANCE PROJECTS

• Freelance Projects

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. [TatsuAsk](#)
- **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. [TatsuFrame](#)

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, 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