Charan Singh

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EDUCATION

Indian Institute of Technology, Jodhpur
B.Tech. in Engineering Science (Major in Computer Science Engineering)   (CGPA: **7.70**/10)   2021 - Present

Kendriya Vidyalaya 9BRD Afs, Pune
Higher Secondary Education (CBSE)   (%age: **95.2**/100)   2020
Senior Secondary Education (CBSE)   (%age: **86.6**/100)   2018

KEY EXPERIENCES

Software Development Intern | KB Cloud Tech Pty Ltd.   May 2024-Jun 2024
Patient Controlled Health Record (KBDigitalHealth)
- Implemented Milestone 1 version 3 APIs for ABHA Card creation, streamlining the user account setup process and ensuring secure, efficient management of Ayushman Bharat Health Accounts.
- Developed the kbdigitalhealth module for healthcare professionals and patients, crafting user-friendly interfaces using Nextjs and integrating comprehensive API functionalities using Postman to facilitate seamless interactions.
- Utilized Firebase Storage and Cloud Functions to support backend functionality, alongside exploring Node.js backend.
- Contributed to various projects including KB AI BOT, KB GPT, and Mandir Management, focusing on UI development and functionality enhancements.
- **Tech-Stack**: Nextjs, Restful APIs, Firebase Storage, Firebase Cloud functions, Postman, Node

Flutter Developer Intern | WebAI Digital Solutions   Jun 2024 - Jul 2024
Nukkad Foods, mobile app for ios and android
- Developed three Flutter applications: one for restaurant owners to manage listings, another for users to order dishes, and a third for delivery personnel to handle deliveries, ensuring a cohesive ecosystem for all stakeholders.
- Integrated backend and API functionalities to connect the apps seamlessly, including the implementation of RESTful APIs, Google Maps APIs for location services, and OTP APIs for secure user authentication.
- Contributed to frontend development by designing and building screens, enhancing user experience, and ensuring the apps were responsive and user-friendly across various devices.
- **Tech-Stack**: Flutter, Dart, MongoDB Atlas, Google Maps API, Firebase, Twilio Authentication, Restful APIs

PROJECTS

InterLinkd (Messaging and Networking Platform) | MERN, Full Stack Development | Github   Dec 2023
- Enables user registration, search, direct and group messaging with file attachments.
- Allows sending/receiving friend requests and real-time notifications for continuous interaction.
- Facilitates creating and managing group chats, with extensive admin functionalities for up to 100 members.
- Users can delete chats, unfriend others, and customize their chat experience.
- A secure, key-accessible admin dashboard for chat metrics.
- **Tech-Stack**: MongoDB, React, Express, Node, APIs

Background Task Terminator | Operating System Project | Github   Nov 2023
- Improved system performance and optimized resource usage by reducing CPU load through the identification and termination of idle applications.
- Implemented a pop-up notification system that alerts users when applications exceed a specified idle threshold.
- Enabled users to manage system resources by allowing them to select and terminate idle applications directly from the pop-up interface.
- **Tech-Stack**: Linux, C/C++, Python

SeventyFive | Kotlin Android Development | Github   Aug 2023
- Built an attendance app to reduce proxies during lectures
- Utilized Nearby Share (WiFi-Direct & Bluetooth) technology for data transfer.
- Designed and implemented two distinct user interfaces – one for students and another for teachers – to ensure a user-friendly experience
- Explored the implementation of router-based checking, enhancing the app's efficiency and accuracy in attendance tracking
- **Tech-Stack**: Kotlin, Wifi-Nearby Technologies

BlockChain Implemention on NodeJs | Database System Project   Nov 2023

- Developed and implemented a land registration system using a basic blockchain structure in Node.js.
- **Tech-Stack**: Node.js, Basic Blockchain concepts, HTML, CSS, Django

Your Vote | Web Application | [Github]   Oct 2023

- Developed a web application using HTML, CSS, and Bootstrap for the frontend, along with Express, Node.js, and MongoDB for the backend, allowing users to create polls for voting.
- Implemented functionality for users to cast votes using a unique poll ID, ensuring secure and efficient poll management and vote casting.
- **Tech-Stack**: HTML, CSS, Nodejs, MongoDB, Express

Parallax Lumino Webiste | Web Application & Digita Clock | [Github]   May 2023

- Designed an engaging portfolio website with captivating parallax scrolling effects
- Incorporated parallax effects into the login page, enhancing the user experience and visual appeal
- Created a Digital Clock using Html, Css
- **Tech-Stack**: HTML, CSS, JavaScript

Clearing Blind spots Using Ultrasonic sound sensors | Design Credit Project | [GitHub]   Aug 2022 - Apr 2023

- Developed a cost-effective solution to assist vehicle drivers in clearing blind spots and preventing accidents
- Implemented Ultrasonic sensors to accurately detect and track the location and speed of nearby vehicles in real-time
- Utilized Tkinter to dynamically visualize nearby vehicles, changing colors based on proximity for improved driver awareness
- **Tech-Stack**: Python, UltraSonic Sensors, IoT, Blender

Positions of Responsibility

Head	Web & Communication Team, Society of Alumni Affairs at IIT Jodhpur for 2022-2023
Senior Executive	Funding, Advisory & Incubation, E-cell at IIT Jodhpur for 2022-2023
Assistant Head	Public Relations, Youth Conclave | Public Relations, Prometeo 2022

Skills

Programming Languages:	C/C++, Python, JavaScript
Web Development:	HTML, CSS, JavaScript, MongoDB, React, Express, Node, Nextjs
Android Development:	Flutter, Dart, Kotlin
Frameworks/Technologies:	R Programming, Scikit-Learn, Pandas, Linux, Kali Linux
Miscellaneous:	MatLab, SQL, Firebase, LaTeX, Git, Rest API, Arduino, NodeMCU

Achievements

Academic Excellence	Secured Top rank in DSA course with **A** Grade, outperforming 220+ students
Department Excellence	Achieved the highest departmental rank (i.e RANK 1) in B.Tech in Engineering Science
Competetive Programming	Solved 150+ questions on Leetcode, GeeksforGeeks, Hackerrank
Entrance Qualify	Qualified JEE Mains & Advance held by IIT Kharagpur and stood in top 1% competitors

Links

- 📝 Portfolio: [Portfolio]
- Github: [charansingh25]
- Leetcode: [charansingh_25]
- CodeForces: [singh_charan]

Relevant Coursework

- Data Structures & Algorithms   - Operating System
- Computer Architecture   - Embedded Systems & IoT
- Design & Analysis of Algorithms   - Embedded Systems
- Database systems   - Cyber Security
- Introduction to Machine Learning   - Design & Analysis of Experiments