Dileep Kumar

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Education

Sukkur Institute of Business Administration   Expected May 2025
Bachelor of Science in Computer Science (GPA: 3.00 / 4.00)   *Sukkur, Sindh*
- **Relevant Coursework:** Data Structures and Algorithms (C++), OOP(Java), Enterprise Application Development, Web Development, Data Science, Artificial Intelligence

Projects

SmartCar Showroom | *Java Programming, Java Swing, GUI Development, Object-Oriented Programming (OOP)*
- Built intuitive, user-friendly interfaces and handled complex event-driven interactions using **Java Swing**.
- Addressed real-world challenges like **inventory management** and **customer tracking**.
- Enhanced project planning and teamwork skills, ensuring timely task execution.

YouTube Clone | *Javascript, React.js, Node.js, APIs, State Management (React Hooks/Redux), Tailwind CSS*
- Designed a responsive and engaging front-end using **React.js**, **Tailwind CSS**, and custom components.
- Built server-side logic with **Node.js** and integrated RESTful APIs for data management.
- Implemented efficient state management using **React Hooks** and **Redux**.

File Compressor | *Data Structures and Algorithms, Huffman Coding, Compression Techniques*
- Implemented **Huffman coding** to compress files, reducing size while maintaining data integrity.
- Deepened understanding of **tree structures** and algorithmic optimization.

Parent-Teacher Communication App (FYP) | *React Native, Node.js, Socket.io, Firebase, MongoDB*
- Developed a full-stack mobile app to facilitate real-time communication between parents and teachers.
- Integrated key features such as: **Messaging, Attendance Tracking, Student Profile, Exam Schedule, Resources, Events, Timetable, Feedback, Fee Management, Policy Updates, Assignments, and Reports**.
- Aimed to improve communication efficiency and student performance monitoring for grades 1–10.

Experience

Freelance Web Developer   January 2022 - Present
Self-Employed   *Remote*
- Built and deployed multiple responsive web applications using **React.js**, **Node.js**, and **Tailwind CSS**.
- Created RESTful APIs and handled backend logic using **Express.js** and **MongoDB**.
- Collaborated with clients to gather requirements, deliver scalable solutions, and iterate based on feedback.

Tech Innovators Inc.   May 2023 - August 2023
Web Development Intern   *Remote*
- Worked on a dynamic internal dashboard using **React.js** and **Redux** for state management.
- Integrated third-party APIs and implemented secure authentication using **Firebase**.
- Contributed to a component library, improving UI consistency and reusability across the platform.

Independent Project   September 2023 - November 2023
Full Stack Developer   *Remote*
- Designed and developed a full-stack application with **React Native** frontend and **Node.js + Express.js** backend.
- Implemented real-time features using **Socket.io** and managed user data securely with **MongoDB**.
- Deployed the application to the cloud and set up CI/CD pipelines for automated deployment and updates.

Technical Skills

Languages: Python, Java, C++, JavaScript
Technologies: React.js, React Native, Node.js, Express.js, Bootstrap, Tailwind CSS, Socket.io, Firebase
Databases: MongoDB, MySQL, PostgreSQL
Tools & Platforms: Git, Linux, Jupyter Notebook, VS Code, Postman, Firebase Console
Concepts: Object-Oriented Programming (OOP), RESTful APIs, Real-time Communication, Database Normalization, Agile Methodology, Compiler Design, Operating Systems, Encryption/Decryption