MAHESH KUMAR DASH

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EDUCATION

C.V. Raman Global University	**2024**
BTech, Computer Science Engineering	9.30 CGPA
College Of Basic Science And Humanities	**2020**
+2, Science	68 %
Saraswati Sishu Vidya Mandir	**2018**
10th	84 %

TECHNICAL SKILLS

Languages: JavaScript, Java
Full Stack Development : HTML, CSS, React JS, Node JS, Express JS
Database: MySQL, MongoDB
Web Servers and Deployment: Nginx, Docker
Mobile App Development: Flutter, Firebase
Developer Tools: VS Code, Git, GitHub, Android Studio, IntelliJ IDEA

EXPERIENCE

Flutter Development Intern | *Flutter, Dart, Firebase* — Jun 2023 – Aug 2023
Business Intelligence and Professional Pvt. Ltd — Bhubaneswar, Odisha

- Developed a digital gate pass system to replace physical paperwork, enhancing security and providing a seamless user interface using Flutter for Android and iOS.
- Integrated Firebase Authentication, Cloud Messaging, and Firestore for secure access control, instant notifications, and real-time data synchronization across user roles.

PROJECTS

Covid19Tracker App | *Flutter, Dart, REST Api, Provider* — October 2022

- Developed a responsive Flutter app for Android and iOS, delivering live COVID-19 statistics from sources like WHO.
- Provided users with up-to-date health protocols and vaccination info to support informed decision-making.

File Hider Application | *Java, MySQL* — September 2024

- Developed a Java-based app using MVVM architecture, enabling users to add, hide, and remove files with robust encryption for data protection.
- Integrated OTP and email authentication for secure access, combining user verification with intuitive file management controls.

Pulse Play Website | *ReactJs, ExpressJs, MongoDB, NodeJs, Mongoose* — Currently Working

- Engineered a dynamic video hosting website with Node.js, Express.js, MongoDB, and Mongoose, featuring user-friendly functionalities like video uploads, likes/dislikes, and comments to drive engagement.
- Integrated JWT and bcrypt for secure user authentication, ensuring data protection while following best practices for a scalable and maintainable codebase.

PUBLICATIONS

A Novel Consensus Mechanism using Impression based Byzantine Fault-Tolerance for Lightweight Blockchain in IoT enabled Smart Home Autonomous System (IEEE Xplore)

- Developed and published an IBFT consensus mechanism for secure, efficient blockchain in IoT Smart Homes, presented by IIT Mandi at the 15th ICCNT conference. The paper is published by IEEE Xplore.
- Integrated IBFT and Storj for secure, decentralized IoT data management, demonstrating adaptability in blockchain technology.

CERTIFICATIONS

- Received a certificate from the 15th ICCNT conference, awarded by IIT Mandi.