

# SARVESH KUMAR

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## OBJECTIVE

Aspiring Developer with hands-on experience in designing and developing Mobile & web applications, Scripts and tools, and APIs & Microservices. Proficient in front-end and back-end technologies including React, Node.js, Python, Java, C++ and cloud services. Passionate about building scalable solutions, optimizing workflows, and enhancing user experiences through seamless integration of technology. Seeking to contribute to innovative projects and grow within a dynamic development team.

## PROJECTS

- **Rural Housing Construction Monitoring System** : Designed and developed a system to monitor the progress of rural housing projects in real-time. Created a web-based dashboard for data visualization and reporting, and a mobile app enabling on-site photo-based progress tracking, Integrated geolocation, offline data collection, and automated report generation to enhance project transparency and accountability.
- **Ethereum Based Dapp**: A decentralized web application (DApp) leveraging **JavaScript**, **Moralis.io**, and **MetaMask** to interact with the Ethereum blockchain. The DApp provides seamless wallet integration and tracks essential wallet data, including:
  - **NFT Ownership** (detection and display of NFTs across supported chains)
  - **ETH Transactions** (detailed history of incoming/outgoing transactions)
  - **Wallet Balances** (on both Ethereum Mainnet and Testnets)
- **Adaptive Traffic Signal Control**: Developed an adaptive traffic signal control system leveraging genetic algorithm and Integrated YOLO for vehicle detection, dynamically adjust signal timings based on traffic flow patterns, utilizing Python, OpenCV, and TensorFlow for control logic.
- **MeVo - Medical Voice Assistant**: Designed Android Application from Scratch using Android Studio that allows Medical staff to Query on patients records, using Voice commands and Visual Search by Facial Recognition of Patients. Backend was developed on Flask framework, then it was containerized on AWS.
- **Discord Server Bots**: Developed a custom Discord bot to streamline server management and automate routine tasks. Implemented features including role assignment, moderation tools, and event scheduling. Designed the bot using Python and Discord.py, ensuring scalability and efficient handling of large community servers.

## EDUCATION

### Jaipur National University, Jaipur

**Bachelor's in Computer Applications**

**August 2019 – June 2022**

Participated in Smart India Hackathon 2020, Poornima University Hackathon, IBM Workshop of Machine Learning, Google Workshop of WebRangers and various E-Sports Tournaments help at University Level.

### Birla Institute of Technology Mesra, Ranchi (Jaipur Campus)

**Master's in Computer Applications**

**August 2022 – December 2024**

Kaggle Certifications of Machine Learning, Computer Vision, Data Cleaning & Visualization and Deep Learning, also volunteered in Research papers in association with Faculty members in domains such as VANET, Modern Artificial Intelligence, Cybersecurity.

## SKILLS

- Languages: C/C++, Java, Python, SQL, JavaScript, HTML5/CSS,
- Frameworks: SpringBoot, Apache, REST, Django, Flask, React, Next.js, Express.js, Sci-kit Learn, OpenCV, Keras, Bootstrap, jQuery
- Tools & Platforms: Visual Code, Android Studio, MySQL, Postman, Microsoft Office, Photoshop, Anaconda, Git, AWS, Docker, Kubernetes, MongoDB, Autodesk Maya, zBrush, Unreal Engine, Typescript,