

Rahul Verma

Software Developer | Android Developer | IoT & Robotics Enthusiast

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D.O.B : 08 - Jan - 2005

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Summary

I am a Computer Science engineering student with a strong technical foundation and hands-on experience in full-stack web development, Android development, artificial intelligence, and robotics.

Over the years, I have worked on various real-world projects involving IoT, automation systems, and embedded technologies, blending software and hardware to solve meaningful problems.

My core strengths lie in building scalable web applications, integrating intelligent systems, and creating solutions that enhance everyday life through innovation.

I am passionate about continuous learning, collaborative problem-solving, and applying technology to make a real-world impact.

Projects

V2Vision - Vehicle to Vehicle Communication System

- **Advanced Navigation Technology:** V2Vision utilizes GPS and server based vehicle-to-vehicle (V2V) communication to enhance vision in low visibility and blind spots.
- **Real-Time Position Tracking:** Displays the precise locations, speed and direction along with vehicle type of nearby vehicles on a mobile app, enabling drivers to navigate safely within a 300m range.
- **Safety-Focused Innovation:** Combines GPS tracking with emergency alert systems to prevent collisions and improve response times during accidents.

Github Link : <https://github.com/SudoRV/V2Vision>

ESP OTA Flasher – Compiler & Uploader for ESP

- **Seamless OTA Uploads:** Wirelessly upload firmware to ESP8266 boards without USB. Once initially flashed, the device remains OTA-ready.
- **Built-In Code Compiler:** Converts source code into a .bin file using a web or local compiler, ready for OTA delivery.
- **Persistent OTA Support:** Ensures OTA functionality remains active after each upload for continuous remote updates.
- **Developer-Centric Design:** Streamlines ESP8266

development with an easy-to-use system for fast testing and deployment.

Github Link : <https://github.com/SudoRV/ESP-OTA-Flasher>

Visit For More : <https://rahulverma.the-sudo.dev>

Skills

Frontend Development

- HTML, CSS, JavaScript, Pug, React.js, Next.js

Backend Development

- Node.js, Express.js

Database Management

- MongoDB, SQL

Programming Languages

- Python, C, C++, Java

Software & Application Development

- Full Stack Web Development
- Mobile App Development
- AI and ML Application Development

Embedded Systems & Automation

- IoT and Robotics
- Arduino Programming

Education

Bachelor of Technology (B.Tech)

Computer Science Engineering

Year : 2022-2026

Dr. A.P.J. Abdul Kalam Institute of Technology

Senior Secondary (Class 12) CBSE

Year : 2022

Kendriya Vidyalaya No. 2, NHPC Banbasa

Secondary (Class 10) CBSE

Year : 2020

Kendriya Vidyalaya No. 2, NHPC Banbasa

Achievements

National Children's Science Congress (NCSC) - State Level Winner

Selected to represent at the National Level.

State-Level – Science Exhibition

Qualified and presented project at the State-Level Science Exhibition.

Smart India Hackathon (SIH) – Internal College Hackathon Winner.