






# SAURABH KUMAR SINGH

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 [Github](#) |  [Linked-In](#) |  [Leetcode](#)

## Skills and Certificates

- **Technical Skills :** *Programming Languages*(C++, HTML ,CSS, React.js, Javascript), *Web Development*(Node.js, express.js, MongoDB, Authentication and API's), Operating Systems, *OOPs*, *DBMS*(MySql, MongoDB), DSA, Git and GitHub.
- **Languages:** English(Fluent), Hindi (Native).
- **Soft skills:** Assistive, Time Management, Adaptability and Leadership.
- **Certifications:**
  1. **HackerRank Certificates:** React(Basic) , Node(Basic) , Problem Solving(Basic) 
  2. **MongoDB Node.js Developer path** 
  3. **HackerRank Badge: C++ 5 STAR** 

## Work Experience

### Software Developer Intern

Bokaro Steel Limited / SAIL

Dec 2022

- Developed and implemented an Automated Surveillance System called Vehicle License Plate Recogniser that utilizes computer vision and machine learning algorithms to capture and analyze 1 vehicle details at a time.
- It uses high-resolution cameras (1080p/1440p/6MP) placed strategically at entry and exit points to capture real-time video footage.
- With the help of Tensorflow, EasyOCR (Optical Character Recognition), Python(3.11), PyTorch and PHP automatically extracts essential information like license plate, secure storage and analysis for improved surveillance safety.

## Projects

### 1. Scholar-Net

Node.js, Express.js, MongoDB, React.js, Authentication, API's, Multer, Cloudinary

- Designed and implemented user-friendly web app that offers a diverse selection of courses, allowing easy exploration and enrollment based on individual learning preferences.
- It provides an all-in-one solution for seamless course management, offering premium membership, integrated charts, and an intuitive admin dashboard, resulting in a codebase with over 3,000 lines of clean and maintainable code.
- Added a secure JWT token system for user authentication, utilizing encryption algorithms, resulting in a token generation time of less than 100 milliseconds and appropriate HTTP status codes for 95% of error cases.

### 2. Co-Crypt

React.js, API's, Chakra UI, JavaScript, SCSS.

- A real-time web application to track prices of 200+ cryptocurrencies accurately, and stay updated on market trends.
- Helps in comparing 100+ different crypto markets, evaluate performance, and make informed investment decisions in one convenient platform.
- Helps in analyzing price with interactive charts using 5+ modes, and gains insights into market volatility.

### 3. Simon Game

HTML, CSS, JavaScript, jQuery

- Created a game web application played by 1-person using front-end technologies, challenging users to test their memory and pattern recognition skills.
- Applied a user-friendly interface for move input, enabling players to make moves easily and accurately, resulting in a 20% decrease in move input errors.
- Designed a responsive and visually appealing user interface, enhancing user experience across various devices and platforms.

## Education

### Bachelor of Electronics and Communication Engineering

Birla Institute of Technology, Mesra

7.8 / 10 CGPA

2021 - present

### XII - CBSE

Chinmaya Vidyalaya, Bokaro

82 %

2016 - 2020