

# KIRTI SAHU

## Software Developer

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Portfolio: kirti-sahu-portfolio.netlify.app

Location: Raipur, Chhattisgarh

## PROFESSIONAL SUMMARY

Software Developer with **4+ years of experience** building secure, scalable web applications for **government and public-sector systems**. Strong expertise in **Angular, Node.js, RESTful APIs, and relational databases**. Proven track record of delivering high-availability applications used by **state and district-level officials**, improving operational efficiency, system reliability, and data accuracy. Experienced in **automating data extraction from large-scale documents** using OCR pipelines.

## TECHNICAL SKILLS

- **Frontend:** Angular (13+), Angular Material, HTML5, CSS3, SCSS, JavaScript, Bootstrap.
- **Backend:** Node.js, Express.js, RESTful APIs
- **Databases:** MariaDB, MySQL, MSSQL.
- **Authentication & Security:** JWT, Role-Based Access Control
- **Version Control System:** Git, GitHub.

## PROFESSIONAL EXPERIENCE

### Software Developer

RV Solutions Pvt. Ltd.

*Client: Office of the Chief Electoral Officer, Chhattisgarh*

September 2024 – Present

- Developed and maintained **Angular-based web applications** used by **state election officials and departments** for complaint monitoring and administrative workflows.
- Built and optimized Node.js and Express RESTful APIs with JWT-based authentication.
- **Implemented OCR pipeline for automated extraction of Hindi PDF voter list data**, improving data processing speed and accuracy.
- Improved application performance by ~20% through API and database query optimization.
- Supported high-availability systems with 99.9% uptime during election-critical operations.

### Software Developer

Nippon Data System Pvt. Ltd.

*Client: National Informatics Centre (NIC) & Office of the Chief Electoral Officer, Chhattisgarh*

May 2022 – August 2024

- Designed and developed full-stack web applications supporting **district collectors, election officers, and administrative users** across Chhattisgarh.
- Implemented **30+ RESTful APIs** integrated with **MSSQL and MariaDB**, handling large volumes of election and personnel data.
- Automated polling personnel allocation workflows, reducing manual errors by ~30%.
- Ensured application stability and scalability to support **thousands of concurrent users** during election periods.
- Actively participated in requirement analysis, feature development, testing, and deployment cycles.

## **Office Assistance Support Graduate**

### **SBC Exports Limited**

*Client: National Informatics Centre, Nava Raipur*

**January 2022 – April 2022**

- Provided technical support and troubleshooting for deployed government applications.
- Assisted in issue resolution, improving system usability and reducing downtime for end users.

## **PROJECTS**

### **Complaint Monitoring System (CMS)**

<https://election.cg.gov.in/cmsapp>

- Developed a centralized complaint monitoring platform used by **multiple Chhattisgarh Government departments**.
- Enabled senior officials including **CEO, Secretaries, DGP, and District Election Officers** to track and resolve complaints efficiently.
- Improved complaint tracking transparency and reduced resolution turnaround time.
- **Tech Stack:** Angular, Angular Material, Node.js, Express.js, MariaDB

### **Hindi PDF OCR and Data Extraction System**

- Automated extraction of structured data from **Hindi PDF voter lists** using Node.js OCR pipeline.
- Converted thousands of scanned PDFs with non-standard fonts into Excel for **SIR 2025–26 voter verification**.
- Reduced manual data entry time, improved accuracy, and enabled scalable processing.

### **Polling Personnel Randomization System – Web (PPRS-Web)**

<https://election.cg.gov.in/pprs>

- Built a secure web system for **randomized allocation of polling personnel**, ensuring fairness and transparency in elections.
- Used by **District Collectors across Chhattisgarh** during election operations.
- Reduced dependency on manual processes and improved data accuracy.
- **Tech Stack:** Angular, Angular Material, Node.js, Express.js, MSSQL

### **Mission Vatsalya Monitoring System**

<https://missionvatsalva.cg.gov.in>

- Developed monitoring modules for the **Department of Women and Child Development**.
- Supported real-time data management and reporting for welfare initiatives.
- **Tech Stack:** Angular, Angular Material, Node.js, Express.js, MariaDB

## **EDUCATION**

### **Master of Science (M.Sc.) – Information Technology**

Pt. Ravishankar Shukla University, Raipur

*2019 – 2021*

### **Bachelor of Science (B.Sc.) – Computer Science**

Pt. Ravishankar Shukla University, Raipur

*2017 – 2019*

## **PUBLICATIONS**

A survey on cyber law in India: A weapon for controlling Cyber Crimes

International Journal of Technology, 2020. | DOI: 10.5958/2231-3915.2020.00010.3

<https://www.ijtonline.com/HTMLPaper.aspx?Journal=International%20Journal%20of%20Technology;PID=2020-10-1-10>