

# Satyendra Singh

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## Professional Summary

Results-driven **Full Stack Developer** with 2 years of experience building web applications integrated with **IoT** and embedded systems. Expertise in developing scalable solutions using **Node.js**, **React**, and **SQL databases**. Passionate about creating technology solutions that solve real-world problems with a focus on performance and user experience.

## Professional Experience

### Software Engineer

*Houston System, Greater Noida, U.P.*

*May 2023 - Present*

- **Architected** and implemented a RESTful API using Node.js and MySQL that improved learning management system data storage efficiency by 40%.
- **Developed** a comprehensive access control system using Node.js, React, MySQL, and Docker, successfully integrating with physical hardware components including boom barriers, turnstiles, and tripods.
- **Implemented** real-time communication architecture using WebSocket, GraphQL, and Apache Kafka, reducing system latency by 60%.
- **Engineered** hardware-software integrations using multiple protocols (TCP/IP, UDP, HTTP, WebSocket, RS-485) to create seamless connections between web applications and IoT devices.

## Projects

**Houston System Company Website** | *React.js, Tailwind CSS, TypeScript, REST API, Git* Jan 2025 – Present

- **Designed** and developed a responsive, SEO-optimized company website showcasing products and services.
- **Built** modular UI components using React.js and Tailwind CSS, reducing development time for new features by 35%.
- **Implemented** WhatsApp integration for direct customer feedback, increasing customer engagement by 45%.
- **Engineered** backend services with Node.js and Express for contact forms, product data management, and real-time customer interaction via chatbot.

**Automatic Number Plate Recognition (ANPR)** | *RestAPI, React, GraphQL, Redux, Git* Sep 2024 – Dec 2024

- **Built** a role-based frontend interface using React.js, Tailwind CSS, and TypeScript with distinct admin and operator access levels.
- **Integrated** ANPR technology with parking management systems, automating vehicle logging and reducing manual entry errors by 95%.
- **Implemented** CI/CD using TravisCI, decreasing deployment time by 70% and eliminating deployment-related issues.
- **Developed** GraphQL and REST APIs to efficiently manage vehicle data, user roles, and system access logs.

**Mullanpur Stadium Access Control System** | *Node.js, MySQL, Database Indexing* Feb 2024 – Aug 2024

- **Designed** and deployed a multi-gate access control system serving various user categories at Mullanpur Cricket Stadium.
- **Engineered** a ticket validation system using QR and RFID scanners that processed 10,000+ tickets per event with 98% accuracy.
- **Developed** gate-level authorization logic ensuring precise access control based on user roles and permissions.
- **Created** a centralized Flask-based backend with an optimized MySQL database for real-time validation.

**Parking Guidace System** | *Node.js, React, MySQL, Docker, Git* June 2023 – Jan 2024

- **Developed** a full-stack application providing real-time parking availability information for multi-level parking facilities.
- **Integrated** IoT parking sensors to detect vehicle presence with 99% accuracy and update slot occupancy in real-time.
- **Implemented** Redis for handling asynchronous tasks, reducing system load during peak usage by 50%.
- **Created** digital signage integration showing real-time availability data on P10 LED displays.

Education

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<b>Bachelor of Science, in Electronics</b> <i>Lovely Professional University, Jalandhar, Punjab</i>	<i>Aug. 2013 – May 2018</i>
<b>Higher Secondary Certificate</b> <i>Aadarsh Sarvodaya Higher Secondary School, Anuppur, M.P.</i>	<i>Aug. 2011 – May 2012</i>
<b>Secondary School Certificate</b> <i>Aadarsh Sarvodaya High School, Anuppur, M.P.</i>	<i>Aug. 2009 – May 2010</i>

Technical Skills

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**Programming Languages:**JavaScript (ES6+), Python, C/C++, SQL, HTML5, CSS3  
**Frameworks & Libraries:**React.js, Node.js, Express.js, Flask, Django, Material UI, Bootstrap, Redux, Pandas, NumPy, Matplotlib  
**Developer Tools:**Git, Docker, Kubernetes, AWS Cloud Platform, CI/CD (TravisCI)  
**Protocols & APIs:**REST, GraphQL, WebSocket, TCP/IP, UDP, HTTP, RS-485  
**Other Skills:**IoT Integration, Embedded Systems, Access Control Systems, Real-Time Data Processing  
**Soft Skills:**Problem Solving, Cross-Functional Collaboration, Technical Documentation, Project Management