

# Satyendra Singh

+91 9584224133 | [satyendra@su.edu](mailto:satyendra@su.edu) | [linkedin.com/in/satyendra](https://www.linkedin.com/in/satyendra) | [github.com/satyendra](https://github.com/satyendra)

## OBJECTIVE

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Proactive Full Stack Developer with 2 years of experience and cross-domain expertise in IoT and embedded systems, aspiring to lead impactful tech initiatives and drive product excellence.

## EDUCATION

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### Lovely Professional University

*Bachelor of Science, in Electronics*

Jalandhar, Punjab

Aug. 2013 – May 2018

### Aadarsh Sarvodaya Higher Secondary School

*Science*

Anuppur, M.P.

Aug. 2011 – May 2012

### Aadarsh Sarvodaya High School

Anuppur, M.P.

Aug. 2009 – May 2010

## EXPERIENCE

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### Houston System

*Software Engineer*

may 2023 – Present

Greater Noida, U.P.

- Developed a REST API using Node.js and MySQL to store data from learning management systems
- Developed a full-stack web application using Node.js, React, MySQL, and Docker, integrated with hardware components such as boom barriers, turnstiles, and tripods to build an access control system.
- Gained hands-on experience with WebSocket, GraphQL, Apollo Client and Server, and Apache Kafka for implementing real-time communication and event-driven architecture.
- Worked on real-time hardware integration using protocols such as TCP/IP, UDP, HTTP, WebSocket, RS-485 and REST API.

## PROJECTS

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### Parking Guidace System | Node, React, My-SQL, Docker, Git

June 2023 – January 2024

- Developed a full-stack web application using with Node serving a REST API with React as the frontend
- Integrated parking sensors to detect vehicle presence, updating real-time slot occupancy status in the web interface
- Displayed real-time parking availability (per floor) on a P10 LED display using sensor data.
- Used Redis for asynchronous tasks

### Mullanpur Stadium Access Control System | Node, MySQL, Indexing, T20 machine

February 2024 – August 2024

- Designed and deployed an access control system across multiple gates in the Mullanpur Cricket Stadium for various categories including BCCI officials, Punjab Kings team members, service staff, and ticket holders.
- Established an efficient ticket validation process by integrating QR and RFID scanners at entry points, leading to the processing of over 10,000 tickets per event with a 98 % accuracy rate in validation.
- Developed gate-level authorization logic—e.g., team gates exclusively allow Punjab Kings team cards; BCCI gates only allow BCCI officials.
- Ensured real-time validation and access control by connecting scanning systems to a centralized Flask-based backend and MySQL database.
- Optimized gate operations by ensuring that users are only allowed through gates based on their access type and ticket permissions.

### ANPR | Rest API Integratin, React, Redux, Tailwind Css, GraphQL, Git

September 2024 – December 2024

- Built the frontend using React.js, Tailwind CSS, and TypeScript with distinct access levels—Admins can manage and edit records, while Operators have read-only access.
- Integrated the system into a paid parking management solution using ANPR technology to automate entry and exit logging.
- Implemented CI/CD using TravisCI to ensure reliable deployments and streamline development workflows.
- Developed and consumed REST and GraphQL APIs to efficiently manage vehicle data, user roles, and access logs within the system.

## **Houston System Company Website** | *React.js, Tailwind CSS, TypeScript, Rest API, Git* January 2025 – Present

- Designed and developed a responsive and SEO-friendly company website for Houston System to showcase products, solutions, and services.
- Built the frontend using React.js, Tailwind CSS, and TypeScript for a clean, modern, and mobile-friendly UI.
- Created modular and reusable UI components to ensure consistency and ease of maintenance across the site.
- Integrated backend services using Node.js and Express to manage contact forms, product data, content updates, and a chatbot for real-time customer interaction. Implemented WhatsApp chat integration to collect customer feedback directly through the website.
- Set up version control and code collaboration via Git, ensuring streamlined development and peer reviews.

## TECHNICAL SKILLS

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**Languages:** Python, C/C++, My-SQL, JavaScript, HTML/CSS

**Frameworks:** React, Node.js, Flask, Django, Material-UI, Bootstrap

**Developer Tools:** Git, Docker, Kubernetes, Dev-Ops, AWS Cloud Platform, VS Code, Visual Studio, PyCharm

**Libraries:** pandas, NumPy, Matplotlib