Satyendra Singh

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# Objective

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

**Lovely Professional University** Jalandhar, Punjab

*Bachelor of Science, in Electronics Aug. 2013 – May 2018*

**Aadarsh Sarvodaya Higher Secondary School** Anuppur, M.P.

*Science Aug. 2011 – May 2012*

**Aadarsh Sarvodaya High School** Anuppur, M.P.

*Aug. 2009 – May 2010*

# Experience

**Houston System** may 2023 – Present

*Software Engineer Greater Noida, U.P.*

* Developed a REST API using Node js and My-SQL 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

**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, Talwind 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

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

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

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

**Libraries**: pandas, NumPy, Matplotlib