

# Satendra Kumar R

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## Professional Summary

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Senior Full-Stack Software Engineer with over 4.5 years of experience owning system architecture, designing scalable multi-tenant SaaS products, and building real-time distributed microservices. Proven expertise in Python/Flask backend engineering, robust API Design, and React.js frontend development. Driven by a mobile-first design philosophy to ensure clean UI and reliable system performance. Leveraged AI-assisted developer tooling to accelerate prototyping, debugging, testing, and full-stack feature delivery.

## Technical Skills

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**Backend & System Design:** Python (Flask, FastAPI), RESTful API Design, Microservices, Celery, WebSockets  
**Frontend & BI:** React.js, Next.js, JavaScript (ES6+), Apache Superset, Custom Charting, HTML5/CSS3  
**Security & Testing:** Authentication (JWT, OAuth, RBAC), Unit Testing, Integration Testing, PyTest, Jest  
**Cloud & DevOps:** AWS (EC2, S3), Docker orchestration, Nginx, PostgreSQL, MongoDB, Redis, Linux, Git

## Professional Experience

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### Analogyx BI Pvt. Ltd.

Senior Software Engineer — Full-Stack

Bengaluru, India

Sept 2021 – Feb 2026

#### Enterprise BI & Analytics Platform

- **System Architecture:** Architected scalable backend analytics services using Python (Flask) and PostgreSQL, seamlessly integrating with Apache Superset to power enterprise-grade reporting workflows.
- **UI/UX Customization:** Led frontend UI development by engineering complex React.js visualization modules—including spreadsheet-style analytics, pivot reporting, and interactive Gantt charts—translating bespoke client requirements into deployable features.
- **Performance Optimization:** Drove massive performance initiatives on legacy financial recalculation pipelines, reducing data processing latency by 96% (40 minutes to under 90 seconds) to unblock real-time dashboard responsiveness.

#### Automated Options Trading Platform

- **Distributed Systems:** Owned the end-to-end system design of a production-grade algorithmic trading platform, leveraging Flask, Celery, Redis, and PostgreSQL for reliable distributed task execution and multi-leg risk management.
- **Real-Time Data Pipelines:** Engineered high-frequency WebSocket microservices for real-time market tick ingestion, ensuring highly reliable, low-latency data streaming for automated order execution.
- **Risk & Reliability:** Designed robust order workflows featuring distributed stop-loss monitoring, successfully eliminating execution slippage during high-volatility market sessions and protecting live capital.

#### ERP Warehouse Mobile Application

- **Mobile Engineering:** Spearheaded the development of a cross-platform enterprise mobile application utilizing React Native and Expo to modernize warehouse logistics and supply chain operations.
- **API Integration:** Integrated mobile frontends with complex Epicor ERP RESTful APIs, facilitating seamless, real-time synchronization of inventory count cycles, PO receipts, and internal warehouse transfers.
- **Operational Efficiency:** Designed barcode-driven device workflows that significantly improved data accuracy and stock tracking efficiency across distributed warehouse environments.

### HGS — Hinduja Global Solutions

Senior Technical Support Engineer

Bengaluru, India

June 2018 – March 2021

- **Technical Troubleshooting:** Provided enterprise-level technical support for networking and VoIP infrastructure, driving root-cause analysis for hardware failures.
- **System Reliability:** Collaborated with cross-functional teams to resolve complex outages, significantly reducing MTTR and ensuring high availability for ISP enterprise clients.

## Selected Projects & Independent Development

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### Comprehensive SaaS Platforms (FinanSync, MedOrbit HMS, Zentrio HRMS)

- Architected and developed fully functional, MVP-ready web applications spanning billing/accounting, hospital management, and HR systems. Leveraged AI-assisted developer tooling to accelerate prototyping, debugging, testing, and full-stack feature delivery.

### Automated Options Trading Engine

- Built an end-to-end production trading system (Flask, Kite API, Celery, PostgreSQL) handling live tick ingestion, automated risk management, and reliable forward-testing.

### Apache Superset Enterprise BI

- Extended Superset core with custom visualization modules and enterprise API integrations (Python, Flask App Builder, React.js).

## Education

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### Impact College of Engineering and Applied Sciences (ICEAS)

Bachelor of Engineering (B.E.), Computer Science

Bengaluru, India

2013 – 2017