

Manish Sahni

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Full Stack Developer with **1.5 years of experience** designing and developing scalable web applications using the **MERN Stack (MongoDB, Express.js, React.js, Node.js)** and **TypeScript**. Experienced in building responsive user interfaces, developing secure and high-performance REST APIs, implementing authentication and authorization systems, and managing databases using **MongoDB** and **PostgreSQL**. Proficient in modern frontend development with **React.js, JavaScript, HTML, CSS**, and backend engineering using **Node.js, Express.js, Redis, Docker, and Microservices Architecture**. Strong understanding of software development best practices, system design principles, application scalability, and enterprise integrations, with a proven ability to deliver production-ready solutions across the full development lifecycle.

Technical Skills

Frontend Technologies: React.js, Next.js, React Hooks, Redux Toolkit, React Router, Context API, Axios, JavaScript (ES6+), TypeScript, Responsive Design, Bootstrap, Tailwind CSS

Backend Technologies: Node.js, Express.js, REST APIs, BullMQ, Microservices, Swagger/OpenAPI

Programming Languages: JavaScript, TypeScript, HTML/CSS, Go, Python, C++

Databases & Caching: MongoDB, PostgreSQL, Redis, MySQL, Firebase

Authentication & Security: JWT, OAuth 2.0, Authentication, Authorization, RBAC

Third-Party Integrations: Payment Gateways (Stripe, Razorpay), Google OAuth, Microsoft SSO, Oracle Eloqua, Salesforce

Cloud & DevOps: AWS (EC2, S3), Docker, Git, GitHub, GitLab CI/CD, Postman

Concepts: MERN Stack, Microservices, Scalability, Performance Optimization, Caching, Rate Limiting, System Design, Data Structures & Algorithms, OOPs

Experience

Wits Innovation Lab

Dec 2024 – May 2026

Assistant Software Engineer

Kharar, Punjab

- Designed and developed scalable backend services and REST APIs using **Node.js, TypeScript, MongoDB, Redis, and Oracle Eloqua** for enterprise-grade marketing automation and lead management platforms.
- Built and integrated backend systems for the **EventBooth & Campaign Tool**, leveraging **Oracle Eloqua Custom Data Objects (CDOs)** to automate lead capture, campaign workflows, and marketing operations.
- Developed a full-stack desktop application using **React.js, Electron, Node.js, and Express.js**, building responsive user interfaces, reusable React components, state management workflows, and backend APIs supporting **18 utility tools**.
- Engineered the **PlanIT V3** project management backend using **Node.js, TypeScript, and MongoDB**, implementing aggregation pipelines, workflow automation, and scalable REST APIs for efficient project tracking.
- Developed real-time backend services for the **CCAI chatbot** using **Firebase**, enabling seamless data synchronization and interactive user experiences.
- Implemented secure authentication and authorization systems using **Google OAuth 2.0, Microsoft SSO, JWT, and RBAC**, ensuring enterprise-grade access control across multiple internal applications.
- Integrated **Stripe** and **Razorpay** payment gateways into full-stack applications using **React.js** and **Node.js**, implementing secure payment processing, order creation, payment verification, webhook handling, transaction management, and checkout workflows.
- Deployed and maintained applications on **AWS EC2** and integrated **Amazon S3** for secure file storage and retrieval, leveraging **Docker** to streamline deployment and improve application scalability.
- Applied modern backend engineering practices including **Microservices Architecture, Redis Caching, Docker Containerization, and Background Job Processing** to improve application scalability, performance, and reliability.
- Integrated **Swagger/OpenAPI** documentation and standardized API development practices, improving API maintainability, developer onboarding, and compliance with ONDC SRV specifications.

Projects

Utility ToolVault | Electron, React.js, Node.js, Express.js, Tailwind CSS, Webpack, Sharp, pdf-lib, SheetJS

- Developed a privacy-focused **offline desktop application** containing **18 utility tools** across **PDF, Image, Text, Security, File Management, and Productivity categories**, with all data processing performed locally without external server communication.

- Built a secure **Electron desktop application** using **IPC communication** and **contextBridge** to enable safe interaction between renderer and main processes while supporting secure file operations.
- Developed a responsive user interface using **React.js** and **Tailwind CSS** with **dark/light theme support**, sidebar navigation, **drag-and-drop file uploads**, **batch processing**, and real-time progress tracking.
- Integrated **Sharp** for image compression, resizing, format conversion, and background removal; **pdf-lib** and **qpdf** for PDF processing; and **SheetJS** for Excel and CSV file handling.
- Implemented application bundling and deployment using **Webpack 5**, **Babel**, **electron-builder**, and **electron-updater**, enabling cross-platform distribution and automated application updates.
- Built utility features including **background removal**, **PDF-to-DOCX conversion**, **QR code generation**, **barcode generation**, **image processing**, and **document conversion** tools using client-side processing techniques.

Campaign Tool & Event Booth Backend | *Node.js, Express Js, TypeScript, MongoDB, Redis, BullMQ, Docker, Azure AD SSO, Oracle Eloqua, Salesforce API*

- Implemented enterprise-grade **SSO authentication** by integrating **Azure Active Directory** with OpenID Connect using **@azure/msal-node** and **openid-client**, enabling secure identity federation across enterprise applications.
- Automated **Salesforce CRM synchronization** using **jsforce**, seamlessly syncing attendees, appointments, booth interactions, and visitor check-ins to Salesforce Leads and Contacts while eliminating manual CRM workflows.
- Designed scalable **background job processing pipelines** using **Redis** and **BullMQ** for bulk email delivery, analytics generation, and high-volume asynchronous workloads while maintaining low-latency API performance.
- Automated metadata synchronization and campaign configuration management using **node-cron** and **Oracle Eloqua CDOs**, ensuring marketing teams operated on continuously updated campaign structures.
- Strengthened API security through **Joi validation**, **Helmet middleware**, and granular **RBAC authorization**, protecting multi-tenant applications from unauthorized access and common web vulnerabilities.
- Streamlined deployment reliability by integrating **Docker**, **Jest**, **Supertest**, **Husky**, and automated **GitLab CI/CD** pipelines, improving release quality and reducing deployment regressions.

PlanIt Super Admin Backend | *Node.js, TypeScript, Express.js, Prisma, PostgreSQL, Redis, Docker*

- Architected a scalable **multi-tenant SaaS platform** using **Domain-Driven Design (DDD)**, simplifying organization, subscription, and tenant lifecycle management.
- Developed a real-time notification service using **Server-Sent Events (SSE)**, reducing client-side polling overhead by **80%**.
- Built a subscription billing engine supporting dynamic tenant plans and **MRR/ARR reporting**, improving financial visibility and eliminating manual calculations.
- Optimized application performance through **Redis caching** and distributed **rate limiting**, improving API response times by **30–40%**.
- Secured administrative operations using **JWT authentication**, granular **RBAC authorization**, and centralized audit logging for complete operational traceability.
- Integrated **Docker**, **Jest**, and **Supertest** into automated **CI/CD pipelines**, reducing manual QA effort and improving deployment consistency.

Additional Certifications / Activities / Participation

Artist of the Night – Wilocity Event | *Wits Innovation Lab* [Link]

- Recognized with the **Artist of the Night** award during **Wilocity**, an internal cultural event organized by **Wits Innovation Lab**, for singing performance and participation.

LeetCode Problem Solving | *Data Structures & Algorithms* [Link]

- Solved **30+ coding problems** on **LeetCode** covering arrays, strings, hash maps, recursion, and problem-solving fundamentals.

Education

Guru Nanak Dev Engineering College	2021 – 2024
<i>Bachelor of Computer Applications (8.00 CGPA)</i>	<i>Ludhiana, Punjab</i>
P.A.U. Govt. Sen. Sec.	2020 – 2022
<i>Class 12th Non-Medical, PSEB (86%)</i>	<i>Ludhiana, Punjab</i>