

Manish Sahni

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Highly motivated **Software Engineer** with experience in backend development using **Node.js, TypeScript, and Go**. Skilled in designing scalable APIs, integrating marketing automation tools like **Oracle Eloqua**, and managing databases including **MongoDB, and PostgreSQL**. Experienced in building robust systems with **Microservices architecture, Docker, and Redis**, alongside a unique background in **Unity 3D** game development. Passionate about technical problem-solving and creating high-performance full-stack applications.

Technical Skills

Programming/Scripting Languages: TypeScript, JavaScript, Go, HTML/CSS, C#, Python3, C++, YAML, XML

Technologies/Frameworks: Node.js, Next.js, Microservices, Docker, Redis, Oracle Eloqua, OAuth 2.0, GitHub, GitLab, Unity 3D

Databases: PostgreSQL, MongoDB, MySQL, Firebase, SQL

Concepts: RESTful APIs, Backend Development, OOPs, Data Structures & Algorithms, Game Development, Multiplayer Games, Level Designing

Experience

Wits Innovation Lab

Sep 2024 – Feb 2026

Assistant Software Engineer

Kharar, Punjab

- Developed and integrated the **EventBooth & Campaign Tool** backend, leveraging **Oracle Eloqua** for marketing automation and designing custom data objects to manage leads effectively.
- Engineered the **Plan IT V3** project management backend using **Node.js and TypeScript**, implementing **Scalable APIs** and **Aggregation Pipelines** in MongoDB for efficient workflow tracking.
- Architected the backend for the **CCAI chatbot** utilizing **Firebase** for real-time interaction handling and seamless data synchronization.
- Contributed to the **ONDC SRV Specifications** project by designing UI components and integrating **Swagger UI** to ensure robust API documentation and standardization.
- Collaborated on the **Blast Golf POC**, a **Unity 3D**-based game, focusing on **C# scripting** and cross-functional integration within the gaming environment.
- Applied modern backend practices including **Microservices architecture, Docker containerization, and Redis caching** to optimize system performance and reliability.
- Implemented secure authentication flows using **Google OAuth 2.0 and Microsoft SSO**, ensuring enterprise-grade security across multiple internal tools.

Projects

Campaign Tool & Event Booth Backend | *Node.js, TypeScript, MongoDB, REST APIs, SSO Login, Eloqua, Git/GitHub*

- Developed a centralized **backend system** for managing diverse campaigns (e.g., Health Checkups, Sports, Educational) and real-time **event booth lead capturing**.
- Enabled **role-based access control (RBAC)** for Admins, Managers, and Organizations to create and manage campaigns through a dynamic dashboard.
- Integrated **Oracle Eloqua** for marketing automation and engineered **Custom Data Objects (CDOs)** to store campaign details and leads effectively.

PlainIT V3 | *Node.js, TypeScript, Redis, MongoDB, REST APIs, Google OAuth 2.0, Git/GitHub*

- Built a collaborative project management tool supporting **Kanban and Scrum** methodologies to track tickets and manage workflows efficiently.
- Developed secure **user authentication** and role-based permissions for managing project boards using **Google OAuth 2.0**.
- Implemented full **CRUD functionality** for project creation and sprint planning utilizing **MongoDB aggregation pipelines** for performance.

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

- Architected a scalable **multi-tenant SaaS** backend using **Domain-Driven Design (DDD)**, streamlining the management of organizations and subscriptions.
- Engineered a real-time notification module utilizing **Server-Sent Events (SSE)**, reducing client-side API polling overhead by **80%**.
- Built a billing engine for dynamic tenant plans and **MRR/ARR reporting**, eliminating manual financial calculations and improving revenue visibility.
- Optimized system performance by implementing **Redis-backed caching** and distributed rate limiting, improving API response times by **30–40%**.
- Secured admin-level operations with **stateless JWT authentication**, granular **RBAC**, and a centralized audit logging system for 100% traceability.
- Integrated **Docker** and **Jest/Supertest** within **CI/CD pipelines**, significantly reducing deployment regressions and manual QA efforts.

Education

Guru Nanak Dev Engineering College

Bachelor of Computer Applications (8.00 CGPA)

2021 – 2024

Ludhiana, Punjab

P.A.U. Govt. Sen. Sec.

Class 12th Non-Medical, PSEB (86%)

2020 – 2022

Ludhiana, Punjab