

Rahul Sahni

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Highly motivated **Software Engineer with 3+ years** of experience in full stack development using **.NET Core, Python3, Node.js, React, and Next.js**. Skilled in designing clean, scalable architectures, containerization with **Docker**, and working with **CI/CD pipelines**. Experienced with microservices, **SQL Server**, Postgres and cloud platforms like **AWS and GCP**. Passionate about building robust, secure, and high-performance applications with a focus on scalable architectures, DevOps automation, and event-driven systems.

Technical Skills

Programming/Scripting Languages: C#, Python3, JavaScript, HTML/CSS, C, C++, Bash

Technologies/Frameworks: ASP .NET Core, Fast Api, Flask, ASP .NET MVC, Entity Framework, WPF, GRPC, Pytest, LINQ, Docker, Redis, RabbitMQ, Elastic Search, Kibana, Git/GitLab, Linux, AWS, GCP

Monitoring/Observability: OpenTelemetry, GCP logging and observability, Grafana

Databases: SQL Server, Postgres, MySQL, MongoDB

Concepts: OOP, Domain-Driven Design (DDD), Microservices Architecture, RESTful APIs, CI/CD, Software Design Patterns, SOLID Principles, Data Structures & Algorithms, Cryptography & Security, Database Optimization, Multi-Tenant Architecture

Experience

Skelia Technologies Pvt Ltd

Apr 2025 – Present

Software Associate

- Working as a **Software Engineer consultant** for **IKS Health** on multiple products under the **Value-Based Care platform**, contributing to scalable healthcare solutions involving **ICD coding, HCC risk adjustment, clinical documentation, and workflow automation**.
- Developed and enhanced **Risk Adjustment (HCC coding)** workflows with **AI/LLM integration** to extract ICD/HCC codes from clinical notes, enabling efficient collaboration between **coders, auditors, and managers**.
- Engineered backend systems for **Quality Metrics** and **Pre-Visit Summary** platforms using **Python, FastAPI, ReactJS, PostgreSQL, and Alembic**, implementing **multi-tenant architectures** for scalable healthcare workflows.
- Migrated legacy **Windows Scheduler services** to scalable **GCP Cloud Functions**, improving reliability and performance of medical data processing pipelines using **ASP.NET Framework, Python, and MySQL**.
- Applied **best practices in secure coding, CI/CD, and test-driven development** across backend and frontend systems, while gaining deep domain expertise in **healthcare ecosystems and value-based care models**.

Wits Innovation Lab

Jan 2023 – Apr 2025

Software Engineer

Kharar, Punjab

- Spearheaded the development of **backend solutions** using **.NET Core**, contributing to key projects such as **No Cell, Checklist, and Sportistan**. Demonstrated proficiency in understanding **complex codebases, resolving critical issues, and optimizing performance**.
- Enhanced backend systems by integrating robust **search autosuggestion features** using **Elastic Search**, tailored specifically for **e-commerce platforms** like **Craftsvilla** and **Khojle**.
- Leveraged **.NET Core** in conjunction with **SQL Server databases** to ensure seamless **data management and backend operations**, contributing to both new developments and the maintenance of existing systems.
- Expanded the scope of backend development by incorporating cloud infrastructure on **AWS and Google Cloud**, implementing efficient **messaging queues with RabbitMQ**, and deploying **monitoring tools like Kibana** for improved system oversight.
- Delivered a high-impact **VR game project**, focusing on **IoT sensor integration** and **C# scripting** within Unity, while maintaining active involvement in **.NET Core backend projects**.
- Developed **front-end components** using **Streamlit, Angular, ReactJS, HTML, and CSS**, ensuring responsive and **user-friendly interfaces** that complement backend functionalities.
- Demonstrated **adaptability and a strong commitment to professional growth** by mastering new technologies such as **Python, Flask, and Redis**, while maintaining a primary focus on **enhancing .NET-based solutions**.

- Developed **Admission Reporting Admin Dashboard** for CT University in **ASP.Net MVC**, to track employee progress and display real-time locations on **Google Maps**. Achieved a 50% increase in employee progress through the implementation of a filter for viewing employee travel path history on Google Maps.
- Created app interfaces (**DPR, Employee Leave Application, Hostel and Day Scholar Gate pass, Attendance View**) for **CT Unisys App**, an ERP app developed in **Xamarin**.
- Developed **API services** using **ASP.Net Web API** and integrated **MS SQL Server** for database service integration.
- Collaborated with team members to build **CT Chat App** interface using **SignalR** for real-time messaging.

Projects

Blast Motion Golf and Baseball | *WPF, SQL Server, .NET Core API, Unity3D, C#, VR/XR*

- Developed immersive VR simulation games using Unity3D and WPF for golf and baseball performance training.
- Integrated **Blast Motion IoT sensors** for real-time motion capture, leveraging .NET Core APIs to process and deliver insights.
- Built a modular communication layer supporting simulators like TruGolf & E6, adhering to clean architecture principles.
- Implemented asynchronous event handling and telemetry data flow to support multi-device interaction.

NOCELL | *.NET Core API, Entity Framework, SQL Server, Layered Architecture, RESTful APIs*

- Developed RESTful APIs and backend services using clean architecture and **Domain-Driven Design (DDD)**.
- Integrated CI/CD workflows with GitLab pipelines and Docker for automated testing and deployment.
- Built MDM backend using layered architecture, optimizing maintainability and real-time fleet telemetry processing.
- Used SQL Server indexing strategies and EF migrations for performance tuning.

Craftsvilla & Khojle – E-commerce Platforms | *Python, Flask, Elastic Search, Redis, RabbitMQ, AWS, Kibana*

- Designed microservices with event-driven architecture using RabbitMQ for decoupled communication.
- Integrated autosuggestion and semantic search with Elasticsearch, Redis caching, and Flask services.
- Deployed containerized services on AWS; monitored via **Kibana** and performance alerts.
- Simulated Dapr-style pub/sub behavior using custom wrappers for interoperability across services.

Crocs | *Node.js, TypeScript, SQL Server, AWS, CI/CD*

- Created backend services and pipelines using **CI/CD** principles and AWS CloudFormation (IaC).
- Optimized SQL Server procedures and data flow via SSIS packages, ensuring fast sync with APIs.
- Worked closely with the frontend team for contract-driven API development with efficient logging and monitoring setup using Prometheus & Grafana-style tools.

Personal Projects

TestMateAI | *Python, Flask, MongoDB, PostgreSQL, VectorDB (Milvus), LLM Models, Ollama, Next.js*

AI-Driven Test Case Generation and Automation Suite

- Developing TestMateAI, a full-fledged AI-powered test suite that automates test case generation, planning, execution, and insights for QA teams.
- Enables seamless integration with project management tools (e.g., Jira) to identify QA-ready tickets and execute automated testing workflows.
- Leverages LLMs and vector databases (Milvus) to enhance contextual understanding, ensuring efficient test automation and real-time execution tracking. [Github Link]

DBInsightAI | *Python, Streamlit, LLM, Database Integration*

Chat with your databases

- Developing a proof of concept, **DBInsightAI**, that utilizes **Large Language Models (LLMs)** to generate **SQL queries based on user requests** and fetch data from a connected database.
- Created a frontend using **Streamlit** and **Python** to provide an interactive, **chat-like interface** for querying and retrieving information from the database.

- Implemented a **module for handling training sets**, allowing the system to improve query accuracy over time.
- Integrated functionality to generate relevant **charts and visualizations based on the result sets**, enhancing data presentation and usability.
- Aimed at evolving the project into a **SaaS product**, offering a plug-and-play solution that customers can seamlessly integrate into their systems to interact with databases via natural language. [Github Link]

Subdomain Hunter | *ASP .Net Core, React.js, Python, Django, MySQL, Pentest Tools*

Web Application for Vulnerability Scanning

- Designed and developed "Subdomain Hunter," a comprehensive web application for Vulnerability combining **React.js for the frontend** and **Python Django for the backend**.
- The application automates subdomain **enumeration, port scanning, and vulnerability assessment** for any given domain.
- Key features include detection of **open ports, identification of vulnerability types**, scanning of subdomains for potential security issues, and retrieval of service versions.
- The app also captures and stores **screenshots of homepage links**, providing a visual reference for each subdomain and its associated pages.
- Delivered detailed, actionable reports **summarizing potential vulnerabilities, aiding in proactive security management**. [Github Link]

Additional Certifications/Activities/Participation

- Solved 130+ LeetCode problems, strengthening data structures and algorithms (DSA) skills [Link]
- Google Cloud Certified - Associate Cloud Engineer [Link]
- AWS Cloud Foundations [Link]
- CCNA: Switching, Routing, and Wireless Essentials [Link]
- Ethical Hacking Certification [Link]
- Participated in **Advent of Cyber 25 days TryHackMe** (Ranked in **Top 1% in TryHackMe** platform @rahrajva96)
Event

Education

CT University	2019 - 2023
<i>Bachelor of Technology in Computer Science (8 CGPA)</i>	<i>Ludhiana,Punjab</i>
12th Grade	2018 - 2019
<i>Non Medical (90%)</i>	<i>Ludhiana,Punjab</i>
10th Grade	2016 - 2017
<i>89.23%</i>	<i>Ludhiana,Punjab</i>