Sahil Gupta

sahil16gupta11@gmail.com | GitHub | LinkedIn | Portfolio | +91-7249999056 | Bengaluru, India

Senior Software Engineer with **5+ years** of experience building scalable, secure, and AI-driven enterprise platforms across SaaS, cloud-native, and distributed systems. Proven expertise in Agentic AI, multi-agent architectures, backend and microservices development, and Kubernetes-based infrastructure. Strong background in designing secure authentication and authorization systems (SSO, OAuth, IdP/SP), building high-performance data pipelines, and developing robust third-party integrations. Experienced in forward-deployed engineering, collaborating directly with global customers to drive onboarding, data integrations, security integrations, and production adoption. Adept at delivering reliable, privacy-compliant, and highly scalable systems in fast-paced, multi-tenant environments.

TECHNICAL SKILLS

Programming Languages: Java, Python, TypeScript, GoLang, SQL.
Backend Development: SpringBoot, FastAPI, Node.js, REST APIs, Microservices, Multi-Tenancy, Distributed Systems, Event Driven Architecture, Cloud Native Architecture, Low-level & High-level Design, Inter Process Communication (WebSockets, gRPC, SSE), Pub/Sub, Test Driven Development.
GenAI & Agentic AI: Multi-Agent Systems, LangChain & LangGraph, RAG Architectures, Vector Databases, Model Context Protocol, Agent to Agent Protocol, OpenAI, Gemini, Anthropic, Prompt Engineering, Context Engineering.
Frontend Development: HTML5, CSS3, MaterialUI, React, Redux, SSR, Module Federation.
Datastores: MySQL, PostgreSQL, MongoDB, FireStore, ClickHouse, BigQuery, DynamoDB, Redis, Neo4j, Mem0, Milvus, ElasticSearch.
Cloud & DevOps: AWS, GCP, Docker, Kubernetes, API Gateways, Load Balancing, Terraform, Jenkins, Git, GitHub, GitHub Actions, CI/CD Pipelines.
Others: Kafka, RabbitMQ, Postman, KeyCloak, SSO, OAuth, SAML, Data & Service Integrations.

PROFESSIONAL EXPERIENCE

Senior Software Engineer | RevSure AI, Bengaluru, India   **January 2025 - Present**

- Pioneered **Agentic AI** features by integrating LLM-based intelligent agents into workflows, automating repetitive tasks and improving customer productivity through AI-driven automation and intelligent decision-making.
- Built a **Model Context Protocol (MCP) server** to expose in-house APIs and processes as tools for internal and external agents, enabling sophisticated Multi-Agent systems with seamless agent-to-agent communication and workflow orchestration.
- Designed and developed **Multi-agent systems** leveraging distributed AI agents for complex workflow automation, enabling intelligent task delegation, parallel processing, and collaborative problem-solving across enterprise workflows.
- Architected and developed secure **authentication and authorization** services implementing **SP & IdP-based SSO**, **Keycloak** integration, and **API token-based access control**, strengthening platform security and compliance for **multi-tenant SaaS** deployments.
- Built a **cookieless and cookie-based dynamic site analytics** service to track user behavior and engagement across customer websites, providing privacy-compliant visitor tracking and real-time analytics capabilities.
- Acted as a **Forward-Deployed Engineer** working closely with global enterprise customers to support onboarding, solution design, and production rollouts, delivering hands-on assistance for data integrations, workflow automation, and security integrations such as SSO, OAuth, and IdP-based authentication, significantly accelerating time-to-value and customer adoption.
- Designed and optimized **data integrations across 25+ enterprise SaaS platforms** including CRM, marketing automation, and analytics tools, improving data accuracy and reducing sync latency by 30%.
- Designed and implemented secure, production-grade **integrations with enterprise platforms including Slack, SendGrid, Salesforce**, and other third-party services, ensuring robust authentication, fine-grained authorization, reliable event handling, and scalable APIs to support mission-critical customer workflows.
- Engineered a **scalable data extraction system on Kubernetes** to pull data from external sources, implementing scaling, fault tolerance, and resource optimization to ensure robust data ingestion with 40% cost efficiency improvements through intelligent workload management.
- Designed and enhanced critical infrastructure components including **API gateways, Kubernetes ingress controllers, and load balancers**, improving system reliability, traffic management, and scalability for high-availability enterprise deployments.

Software Engineer 2 | Rugged Monitoring, Hyderabad, India   **July 2023 – January 2025**

- Designed and implemented **Inter-Process Communication (IPC) mechanisms and RESTful APIs** to enable seamless integration of multiple AI services into the core product's backend, enhancing system modularity and scalability.
- Diagnosed and **resolved critical memory leaks and change detection issues** in the frontend application, optimizing UI performance by 20% and significantly improving user experience.
- Engineered a **lightweight, high-performance application optimized for embedded systems** with minimal memory footprint, achieving smooth UX even on resource-constrained hardware environments.
- **Led and managed a cross-functional team of 10+ engineers and interns**, providing technical mentorship, conducting code reviews, and overseeing project delivery while ensuring adherence to best practices and development standards.
- Collaborated with AI/ML teams to architect **backend infrastructure supporting real-time monitoring and analytics capabilities**, ensuring robust data processing and system reliability.

Associate Consultant | [Beskar Technologies](#), Bengaluru, India   **May 2022 – June 2023**
- Developed a microservice to integrate external document signing capabilities (e-signature) into an existing Quality Management System, implementing mailing services and user portals to streamline document workflows and enhance compliance processes.
- Conceptualized and implemented a scalable and configurable Revenue Operations (RevOps) platform from the ground up, building notification systems, interactive dashboards, and dynamic configuration modules to improve operational efficiency and user experience.
- Designed RESTful APIs and backend services to enable seamless integration between third-party services and internal systems, ensuring high availability and performance for enterprise clients.

Software Engineer | [Finvolv](#), Bengaluru, India   **February 2021 - May 2022**
- Developed a cloud-based Data Security and Cyber Safety platform using Java Spring Boot, React, and GCP, implementing multiple features through GCP APIs to enable advanced security measures and compliance controls for enterprise teams working on cloud platforms.
- Collaborated with cross-functional teams to enhance workspace security by building scalable security monitoring, data protection features, and real-time vulnerability detection capabilities for distributed cloud environments.
- Promoted from Intern Developer to Software Engineer after completing the internship project within 3 months.

EDUCATION

Indian Institute of Technology, Roorkee   **May 2025 - March 2026**
Post Graduation Program in GenAI/Agentic AI and ML Applications for Engineers
Relevant Coursework: Foundations of AI & ML, Machine Learning Algorithms, Deep Learning & NLP, Generative AI & Large Language Models, AI Agents & Agentic Frameworks, etc.

Birla Institute of Technology and Science, Pilani   **January 2024 - December 2025**
Master of Technology in Cloud Computing (WILP)   **9.47 CGPA**
Relevant Coursework: Big Data Systems, Parallel Programming, Cloud Computing, Network Fundamentals for Cloud, Distributed Computing, Stream Processing and Analytics, API Driven Cloud Native Solutions, Scalable Services, Cloud Security, DevOps for Cloud, Data Warehousing, etc.

Jaypee Institute of Information Technology, Noida   **July 2017 - July 2021**
Bachelor of Technology (Hons.) in Computer Science & Engineering   **8.6 CGPA**
Relevant Coursework: Data Structures & Algorithms, Software Engineering, Computer Networks, Advanced Database, DevOps, Data Mining, etc.

ACADEMIC PROJECTS

Logistics Management Voice Agents | AgenticAI, Anthropic APIs, Retell AI, Fast API, React.js | [GitHub](#)
- Full-stack web application that streamlines logistics dispatch operations using AI-powered voice agents, enabling automated voice call handling, structured conversation extraction, and real-time monitoring through a modern React + FastAPI stack.
- Integrated voice AI and LLM-based natural language understanding to support dynamic agent workflows and robust scenario-based call management.

Hotel Booking Application | Microservices, SpringBoot, API Gateway, Rabbit MQ, MySQL, React.js | [GitHub](#)
- Enterprise-style hotel management microservices assignment demonstrating scalable backend architecture with multiple Spring Boot services, API gateway, service discovery (Eureka), and Rabbit MQ based asynchronous processing.
- Built Docker and Kubernetes deployment configurations to support containerized local runs and inter-service communication for a full distributed system.

Risk based Data Policy Management App | Microservices, SpringBoot, Redis, JPA & Hibernate, MySQL, React.js | [GitHub](#)
- Designed and developed a web application to automate the detection and reporting of policy-based risks in user files, reducing compliance assessment time by 60%.
- Enhanced data security for enterprise users by implementing robust policy-check algorithms and integrating real-time reporting features.

Drowsiness Detection System | Machine Learning & Deep Learning, Computer Vision | [GitHub](#)
- Designed a machine learning and deep learning-based application to detect driver drowsiness in real time, improving road safety by alerting users with 90% accuracy.
- Incorporated computer vision techniques for facial and eye movement tracking, ensuring high performance even in low-light conditions.

CERTIFICATIONS & COURSES
Web Development - NodeJS | Coding Blocks   **Sep 2018 – July 2019**
Data Science Master | Coding Blocks   **May 2019 – Apr 2020**
Competitive Programming | Coding Blocks   **June 2020 – Dec 2020**

INTERESTS
Full Stack Development, Cloud and DevOps, Databases, Distributed System Architecture, GenAI & Agentic AI.

LANGUAGES
English - Professional Proficiency
Hindi - Native