Sahil Gupta

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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.

TECHNICAL SKILLS

Programming Languages: Java, JavaScript, TypeScript, Python, C, C++, SQL.
Backend & Microservices: Spring, SpringBoot, Node.js, FastAPI, REST APIs, IPC, TDD, BDD.
Frontend Development: HTML5, CSS3, MaterialUI, React, Redux, SSR, Module Federation.
Databases & Messaging Systems: MySQL, PostgreSQL, MongoDB, ClickHouse, BigQuery, Redis, Kafka, Milvus, ElasticSearch, Pub/Sub.
Cloud & DevOps: AWS, GCP, Docker, Kubernetes, Terraform, Jenkins, Git, GitHub, GitHub Actions, CI/CD Pipelines, Scrum, Jira, Airflow.
Data Science: ML, Deep Learning, Data Mining & Processing, Data Visualization & Analytics, Big Data, Generative AI, Agentic AI.
Testing & Monitoring: Selenium, Mocha, Jest, Cypress, JUnit, Prometheus, New Relic.

WORK EXPERIENCE

Senior Software Engineer | RevSure AI, Bengaluru, India **Jan 2025 - Present**
- 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.
- Designed and optimized data integrations across 25+ enterprise SaaS platforms (CRM, marketing automation, analytics tools, etc.), improving accuracy and reducing sync latency by 30%.
- Engineered core microservices (auth, permissions, user management, data pipelines) with high availability and scalability, ensuring seamless operation in an AI-driven, enterprise-grade cloud environment.
- Developed interactive dashboards and site analytics modules, enabling real-time insights for customers and enhancing decision-making through data visualization and event-driven architecture.
- Pioneered agentic AI features by integrating LLM-based intelligent agents into workflows, automating repetitive tasks, and improving customer productivity.
- Built a MCP server to expose several in-house APIs and processes as tools for internal and external agents, enabling Multi-Agent systems.
- Optimized API performance and reliability, achieving 20–40% faster response times through caching strategies, query optimization, and distributed system design.

Software Engineer 2 | Rugged Monitoring, Hyderabad, India **July 2023 – Jan 2025**
- Designed and implemented Inter-Process Communication (IPC) mechanisms and APIs for seamless integration of multiple AI services into the core product's backend.
- Diagnosed and resolved critical memory leaks and change detection issues, optimizing UI performance by 20%.
- Engineered a lightweight, high-performance application for embedded systems, achieving a smooth UX and minimal memory footprint.
- Mentored and guided a team of 10+ interns, delivering technical training and overseeing successful project completions.

Junior Associate | Beskar Technologies, Bengaluru, India **May 2022 – June 2023**
- Developed a microservice to integrate external user document signing capabilities into an existing Quality Management System (QMS), including key features like mailing services and user portals.
- Conceptualized and implemented a scalable and configurable Revenue Operations (RevOps) platform, creating notification systems, dashboards, and dynamic configurations to enhance user experience.

Software Engineer | Finvolv, Bengaluru, India **Aug 2021 - May 2022**
- Collaborated on a cloud-focused Data Security and Cyber Safety project, leveraging Java Spring Boot, React, and GCP to enhance cloud-based workspace security.
- Delivered multiple features using GCP APIs, enabling advanced security measures for teams working on cloud platforms.

Intern Developer | Finvolv, Bengaluru, India **Feb 2021 - July 2022**

ACADEMIC PROJECTS

Policy Risk Management App | SpringBoot   **Feb 2021 – Apr 2021**
- 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.

Algorithm Prediction in ML | Machine Learning   **July 2020 – Dec 2020**
- Automated the complex process of algorithm selection for machine learning problems, improving efficiency for data scientists by 50%.
- Developed a recommendation engine that leveraged statistical models and user input to predict optimal algorithms, significantly reducing experimentation time.

Drowsiness Detection System | Machine Learning & Deep Learning   **June 2019 – Dec 2019**
- 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, Machine Learning & Artificial Intelligence

LANGUAGES

English - Professional Proficiency
Hindi - Native

HOBBIES

Cooking, Watching Documentaries and Movies, Listening Music, Painting and Crafts