

# SAGAR VASHNAV

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## EXPERIENCE

### Software Development Engineer

Aug 2024 - Current

#### Starhealth Insurance

Gurgoan, India

- Contributed to the redevelopment and integration of **Java (SpringBoot)** based authentication systems, improving platform security and user experience, which led to a **20% increase** in user adoption.
- Assisted in **streamlining subscription renewal** workflows by building and maintaining backend services, resulting in a **15% enhancement** in customer retention.
- Improved data handling by integrating **custom filtering**, achieving a **25% improvement** in data processing.
- Utilized **Kafka-based messaging** to trigger secure, **asynchronous** workflows for **secret key generation** and **encryption** using methods like **RSA and AES**, ensuring high reliability and responsiveness in event-driven architectures.
- Integrated **SonarQube** for static analysis, improving code quality compliance, and **reducing bugs by 30%**.

### Software Development Intern

March 2024 - Aug 2024

#### Starhealth Insurance

Gurgoan, India

- Developed and deployed a **Single Sign-On SSO** authentication system using **Keycloak**, enabling seamless access across **40+ internal applications** and reducing login efforts by over **60%**.
- Integrated Keycloak with services and **ORM tools (Hibernate/JPA)**, supporting **OAuth2 and OpenID Connect** protocols to enhance authentication flow.
- Maintained high code quality** through peer code reviews, adherence to clean code principles, and implementation of comprehensive **unit and integration tests** using **JUnit and Mockito**.

## PROJECTS

### File Processor Service | Spring, Mongo, Redis, Kafka

January 2026

- Designed a **scalable** backend system that enables the processing of **100k+ documents/month**, raising throughput to **15,000 records/min** and reducing latency by 45%; integrated Kafka for reliable, scalable event-driven ingestion.
- Implemented **fault-tolerant** Kafka consumer/producer pipelines, **job-tracking**, and **Reactor WebClient** non-blocking flows, increasing automated success rate from **70% to 98%** and supporting **500 concurrent jobs**.
- Optimized **Kafka Partitioning** and backpressure, reducing message **lag by 80%** and enabling **10x traffic scale**.

### Single Sign On Application | Java, Spring, Keycloak, MySQL, AWS

March 2025

- Implement **SAML 2.0-based SSO** with support for external identity providers like **Azure AD, Okta, Google, and LDAP**, ensuring **centralized session tracking** per user and client across integrated services.
- Enhanced a fully automated **CI/CD pipeline** using Jenkins, enabling continuous integration and deployment of a Spring Boot Java web app, **reducing manual deployment time by 70%**.

## TECHNICAL SKILLS

- Programming Languages** - Java, Python, Golang
- Databases** - MySQL, PostgreSQL, MongoDB
- Tech Stack** - SpringBoot, Hibernate/JPA, Batch, Kafka, MVC
- Tools/Technologies** - Redis, Swagger, JUnit / TestNG, Logging(Log4j, SLF4j), Git, SonarQube
- Cloud Services** - Docker, AWS, GCP, Jenkins & Kubernetes
- Core Concepts** - Data Structure & Algorithm, System Design, Design Patterns, OOP's, Microservices

## EDUCATION

### K.R. Mangalam University

Gurgoan, India

Bachelor of Technology - Computer Science and Engineering; CGPA : 8.45

Sept 2020 - June 2024

## KEY ACHIEVEMENTS

- Linux Kernel Mentee** - Contributed to open-source Projects as a mentee under **CNCF Projects (LFX Fall'23)**
- Mentor, Organizer In 2023 (HACK KRMU 2.0)** - The second edition of the HACK KRMU National Level Tech hackathon series focused on real-world challenges.
- Patent** - Empowering Refugees in India by a **Decentralized** System for **Digital Identity and Financial Inclusion**.
- 1000+ DSA Questions Solved** - Completed challenges on platforms like **LeetCode, CodeChef, and GFG**
- Dan Kohn Scholarship** - Issued by **CNCF (KubeCon CloudNativeCon North America 2022)**