

# Akash Nigam

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## Technical Skills

**Languages:** Java, JavaScript, Python, SQL, HTML, CSS

**Framework & Developer Tools:** Spring Boot, ReactJS, React Native, AWS (ECS, S3, IAM, Lambda, CloudWatch Logs), Git, Jenkins, Maven, Material-UI, Kafka, Snowflake, JUnit, Mockito, Cassandra

**Concepts:** Microservices Architecture, RESTful/SOAP API Design, Hibernate, Data Structures and Algorithms, System Design

## Work Experience

**Western Union, Pune**

Aug 2023 – Present

### *Full Stack Software Engineer*

- Engineered a comprehensive full-stack web application to automate health report extraction from AWS CloudWatch logs. The system features a Spring Boot backend integrated with Snowflake for scalable data management and a React frontend for user interaction. Developed an optimized streaming solution for synchronous handling of large files (up to 100 MB), ensuring lag-free Excel (XLSX) report downloads.
- Developed a full-stack payment transaction monitoring application within a microservices architecture. Implemented Kafka producers and consumers for continuous data streaming and real-time analysis, while designing a hybrid persistence model with PostgreSQL and Snowflake to handle both transactional and analytical queries. This solution successfully eliminated the dependency on CloudWatch for monitoring, directly reducing operational costs.
- Architected and deployed an asynchronous job execution model in Spring Boot to handle long-running database operations that exceeded the 29-second AWS API Gateway timeout limit. Developed a reliable client-side polling mechanism in React to query job status until completion, ensuring fault-tolerant processing and enhancing overall system resilience by preventing request failures.
- Identified and remediated security vulnerabilities in Spring Boot applications by applying secure coding practices and addressing issues flagged by static and dynamic analysis tools (SAST/DAST). This effort hardened APIs against common exploits, including XSS, CSRF, and SQL Injection, ensuring full compliance with enterprise security guidelines.

**Western Union, Pune**

Jan 2023 – Jul 2023

### *Solution Engineer Trainee*

- Collaborated with the Cloud Operations team to retrieve essential AWS service parameters using the Boto3 library in Python, providing critical data for the Health Monitoring team.

## Project Work

- Real-Time Matchmaking Platform (2025):** Developed a full-stack speed dating platform with a Spring Boot (Java) backend and a React Native (TypeScript) frontend. Implemented real-time audio communication using WebRTC and managed live user sessions via Spring WebSockets (STOMP). Built JWT-based authentication with Spring Security to secure both REST and WebSocket interactions. Integrated PostgreSQL (Spring Data JPA) and Firebase for persistence and communication, designing a microservices-ready architecture to ensure scalability and a seamless user experience.
- AWS Tag Automation and Management System (2023):** Developed a Python project to automate AWS resource tagging and management using the Boto3 library. The solution accessed resources via IAM to retrieve and consolidate service tags into CSV files, providing a streamlined process for editing and updating, which improved organizational governance and resource tracking.

## Education

**HBTU Kanpur**

Aug 2021 – Jun 2023

M.C.A

CGPA: 7.3/10

## Awards and Certificates

- Certificate of successful completion of internship program at Western Union.
- Coding Ninja Certificate of Excellence in Data Structures (C++).