Akash Gaba

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Summary

7 years of experience as a Software Engineer, with notable contributions at Armorcode, Expedia Group, and Sophos. Holding a B.E. from NSIT and expertise in Java, Spring, Spring Boot, AWS, and database technologies. Also has experience in enhancing scalability and performance.

Work Experience

Senior Engineer, Armorcode   October 2023 - July 2025

Armorcode: ArmorCode offers an integrated cybersecurity platform that streamlines application security and vulnerability management to enhance security operations.

Customer-Facing Features

- Worked with product, QA, and frontend teams to build a daily stats system for large-scale datasets, optimizing queries and caching for low-latency analytics dashboards, supporting APIs for querying millions of rows/documents.
- Built a customizable mailing system for users to receive tailored reports, serving hundreds of customers and sending tens of thousands of reports daily.

Performance Optimization

- Improved database performance by removing 500M redundant rows from a 550M-row partitioned table via batch migration, cutting p99 query latency from 30s to 5s.
- Optimized an Elasticsearch data retrieval job task, reducing overall execution time from 15 hours to 30 minutes.

Developer Tools

- Built a system to archive data in Avro format on S3, integrated with crawlers for Athena querying.
- Created a Redis TTL heartbeat system for job concurrency and a locking system to avoid duplicate requests.
- Built a generic JUnit testing framework using parameterized tests and Mockito, guiding a team to achieve over 80% test coverage for 20 of 50 parsers.

Software Development Engineer III, Expedia Group   January 2023 - October 2023

InsurTech Team: Dedicated team enabling travelers to seamlessly purchase insurance along with various products.

- Led the resolution of security vulnerabilities in multiple services, identified by diagnostic tools, enhancing system integrity and reducing potential risks.
- Successfully revamped shopping widget content using internal tools, improving user experience and contributing to increased engagement metrics as a part of increased revenue.

Software Engineer III, Sophos   November 2020 - December 2022

SSPM: Focused on the security posture of Office 365.

- Designed and developed a new product from scratch, integrating Azure for security analysis and designing database tables for an alert engine, while also incorporating AWS services such as SQS and SNS.

Cloud Optix: A Cloud Security Posture Management solution for AWS, GCP, and Azure cloud infrastructure.

- Engineered a PDF summary system, delivering weekly data points to over 50,000 users, and enhanced the AWS inventory fetcher system by implementing a configurable retry mechanism and advancing system monitoring and stability.
- Executed enhancements and stabilization across multiple projects, resolving issues and refining the AWS fetcher system for greater stability. Developed a configurable exponential retry backoff library and delivered high-quality, maintainable code.

Software Development Engineer, Wheelseye   September 2019 - November 2020

Sales App: Provided a mobile-app-based solution to the complete sales team hierarchy.

- Developed an invoicing system to manage daily sales, incorporating legacy data migration, a new operational dashboard, and payment processing integrations.
- Designed an announcement system for the sales team, featuring a dashboard for operational updates viewable on the Android app.

Associate L1, Avizva Solutions   June 2018 - September 2019

Mibenefits: An employee benefit management portal.

- Developed backend modules, including a stop-loss widget that migrates data from SQL Server to Elasticsearch. Also developed the backend for multiple widgets using PostgreSQL and Elasticsearch, boosting core application functionality.
- Optimized database interactions by converting SpringJDBC queries to Spring JPA, achieving a 30% reduction in code complexity.

Skills

Programming and Development: Java 8,11,17, Rest Web Services, Spring, Spring Boot, Hibernate, Git, Unit Testing, Mockito, JUnit 5 (Jupiter)

Cloud and Database Technologies: EC2, S3, SQS, AWS Shell, AWS Java SDK, MySQL, PostgreSQL, Elastic Search

Additional Skills: Algorithms, Data Structures, Problem Solving

Education

B.E. in Instrumentation And Control Engineering, NSIT   New Delhi | 2014-2018
Marks: 65.49%   Degree: University of Delhi

St. Cecilia School   New Delhi | 2013-2014
Marks: 91.8%   12th Class   Board: CBSE

St Peter's Convent   New Delhi | 2011-2012
CGPA: 9.2   10th Class   Board: CBSE