

# 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%

Board: CBSE

12<sup>th</sup> Class

### St Peter's Convent

New Delhi | 2011-2012

CGPA: 9.2

Board: CBSE

10<sup>th</sup> Class