

Saransh Bhalla

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Summary

Experienced Software Engineer specialized in designing secure, scalable backend systems and distributed architectures on AWS. Proven track record in leading cross-functional initiatives, driving architectural designs, and delivering high-scale platform components with a focus on security, performance, and developer productivity.

Skills

- Cloud & Infrastructure: AWS (Lambda, EC2, DynamoDB, SQS, SNS, EventBridge, Step Functions, S3, CloudWatch)
 - Programming Languages: Java, TypeScript
 - Frameworks & Libraries: ReactJS, GraphQL, Spring, AngularJS
 - APIs & Web Technologies: REST, HTML/CSS/JS
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Work Experience

Amazon Web Services

Boston MA, USA

Software Development Engineer

06/2022 – Present

- Owned architecture and delivery of a high-impact compliance feature for transactions worth millions/month. Designed across 4 systems, coordinated delivery, drove internal design discussions across teams and coordinated security and operational reviews — ensured a secure, on-time launch for 45,000+ users.
- Re-architected and exposed 10+ internal APIs to clients serving thousands of users, with zero issues reported.
- Designed a centralized, standardized and reusable authorization layer, used in 10+ APIs, cutting dev time by 20%.
- Designed and launched a scalable entitlement system for all Marketplace sellers, enabling policy-based access control across 3 critical flows. Developed a custom policy grammar to help define complex JSON-based policies.
- Developed a cross-system auditor to detect silent data inconsistencies across ingestion paths. It surfaced and resolved 10+ issues before they could impact business, improving data integrity across teams.
- Led architectural simplification initiative by replacing fragile SQS-Lambda async flows with synchronous and deterministic locking-based designs — resulting in reduced 5xx errors caused by race conditions by almost 90%.
- Identified a potential silent failure in async validations affecting ~15% of cases; implemented shallow pre-checks that ensured safe rollout of a new feature with seamless user experience.
- Led the decomposition of a legacy backend proxy by relocating all critical validations to the UI, enabling direct service integration, improving latency by ~20%, and ensuring zero regressions across 3 high-impact workflows.

Kuebix LLC, a Trimble Company

Maynard MA, USA

Software Engineer (Full time and intern)

06/2020 – 06/2022

- Delivered end-to-end development and deployment of core customer microservices in Java and MongoDB, powering key workflows within the Transportation Management System (TMS).
- Refactored and optimized 35+ APIs to improve performance while maintaining strong backward compatibility.
- Wrote a testing framework to do API integration and load testing.
- Worked on Optimizer project, in Java, to solve Vehicle Routing Problem with an extensive set of constraints. Prototyped an NP-hard algorithm that improved performance by 60% under real-world constraints.

Software AG Bangalore Technologies Pvt Ltd

Bengaluru, Karnataka, India

Assistant Consultant (Role: Software Developer)

08/2016 – 06/2018

- Led UI development for a team of 3 in a cross-functional business application.
 - Built and demoed a live IoT integration showcasing edge-device connectivity using Cumulocity — presented to 300+ stakeholders at an annual company event.
 - Worked on improvement of common UI components used in 4 projects used by 500+ users.
 - Was awarded a Quarterly Achievement Award for contribution to the projects.
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Education

M.S. Computer Science - The University of Akron, Akron, OH, USA

08/2018 – 05/2020

B. Tech Computer Science and Engineering - Guru Nanak Dev University, India

07/2012 – 05/2016