

ABHISHEK PRATAP SINGH

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ABOUT ME

Lead SDE(7 Years) specializing in **Distributed Systems, Concurrency, and Microservices Architecture**. Proven history of optimizing high-throughput systems at Amazon and reducing operational costs by 40% through custom automation. Focused on building fault-tolerant, scalable backend solutions.

TECHNICAL SKILLS

Programming Languages: Java, JavaScript, C, Shell/Bash
Frameworks and Libraries: Spring Boot, React.js, Junit, Spring Data, Hibernate.
Database and Storage: DynamoDB, MySQL, PL/SQL
Cloud and DevOps: AWS CloudFormation, AWS CDK, IAM, S3, SNS, and SQS, Git, GitHub, Docker, Kubernetes
Architecture and Design: Microservices, Monolithic, Object-Oriented Programming, Agile Methodologies, System Design.
Other Skills: REST API, Data Structures and Algorithms, Multithreading, Unix/Linux
Tools & Platforms: Git, Visual Studio Code, JetBrains IntelliJ.

PROFESSIONAL EXPERIENCE

Lead SDE Dec 2025 - Present
Freecharge By Axis Bank Gurugram, India

- **S3 Document Migration & Architecture:** Engineered a Failsafe document migration strategy for LOS, Transitioning 5+ documents to a restructred S3 directory architecture with dual-path writing, and backward-compatible presigned URL generation, ensuring zero downtime for 4+ partner integrations processing digital lending workflows.
- **Entity Resolution & String Similarity:** Engineered a multi-layered fuzzy matching engine to reconcile brand names between disparate sources; integrated Jaro-Wrinkler and Token based algorithms to achieve a 99% match accuracy, reducing manual KYC verification overhead by 40%.

Senior Software Development Engineer Oct 2024 - Oct 2025
Amazon Via BCT Consulting Gurugram, India

- **Cross-Region Distributed Architecture:** Architected the scalable Bill of Lading solution for the Australia market, implementing internal service mesh wrappers and resiliency patterns to orchestrate complex multi-region service calls.
- **Frontend Optimization & Tooling:** Engineered a robust cache-busting strategy within the JavaServer Pages and JavaScript ecosystem to eliminate asset staleness. Integrated these checks into the CI/CD pipeline, ensuring 100% delivery of the latest resources and reducing UI-related support tickets by 90%.
- **Security & Compliance (RBAC):** Designed fine-grained Role-Based Access Control (RBAC) mechanisms for Invoice and E-Way Bill modules. Restricted sensitive financial data access based on user roles, ensuring strict compliance with regional data privacy regulations.
- **Infrastructure Modernization:** Led a critical security overhaul by migrating the GCP environment to Multi-Factor Authentication (MFA) and upgrading the core Authorization Library (v1.0 to v3.0). Mitigated legacy vulnerabilities and aligned the application with Amazon's modern security standards.

Senior Software Engineer Oct 2023 - Aug 2024
Accolite Digital Gurugram, India

- **Simulation Infrastructure (System Design):** Architected a high-fidelity Link Simulator from scratch to emulate complex network behaviors for the Bobst MPC3 Easy integration. Engineered the backend using Java/Spring Boot and utilized MySQL to store diverse simulation payloads, enabling the team to validate edge cases without reliance on physical hardware.
- **Reliability & Automation (CI/CD):** Integrated the Link Simulator into the CI/CD pipeline to automate regression testing suites. This proactive fault detection strategy successfully reduced production system downtime by 5%, significantly improving operational stability.
- **Protocol Integration:** Led the end-to-end integration of Link Communications modules, ensuring seamless data transmission across distributed endpoints. Optimized low-level packet handling logic, which resolved latency bottlenecks and improved communication reliability under high-load scenarios.

EDUCATION

Bachelor Of Technology, Computer Science & Engineering
Inderprastha Engineering College, UP, India

Aug 2015 - Jul 2019
Percentage: 73.60%

ACHIEVEMENTS

- Achieved mastery by solving over 300+ Data Structures and Algorithms problems on LeetCode, honing advanced problem-solving skills. Explore my profile and solutions here: [Leetcode Profile](#)
- Solved 650+ algorithmic problems across competitive platforms, achieving a Top 1% global ranking in coding contests and maintaining a 99-day consistency streak.: [Explore my profile](#)
- Secured second position in the International Mathematics Olympiad at the district level.