

# Sarabjot Singh

Senior Software Engineer

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## EXPERIENCE

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- **Fidelity National Information Services (FIS)** Bellevue, WA  
2023 - Present  
*Senior Software Engineer*
  - Led the initiative to merge multiple microservices into a unified monolith service, reducing deployment complexity by 40%, improving system throughput by 25%, and decreasing infrastructure cost.
  - Spearheaded cross-team effort to replace 3rd-party tokenization with a new encryption service across 5+ backend services; partnered with security team, and achieved 70% lower latency in critical paths.
  - Designed and implemented an event-driven reconciliation system using Kafka with change data capture, enabling financial ledger reconciliation and reducing manual effort by 90%.
  - Developed reusable Terraform modules for Datadog alarms, kafka connectors, and AWS KMS, enabling 5+ internal teams to adopt standardized infrastructure as code.
  - Redesigned data access workflows by replacing retool with a secure, internally hosted tool for operational data access; introduced OPA policy for precise role-based controls.
  - Mentored 4+ junior engineers through project guidance and monthly sessions; conducted 40+ interviews and helped hire 7 full-time engineers into the org.

*Languages & Technologies used:* Python, AWS, RDS, PostgreSQL, Kafka, S3, Kubernetes, Helm, Docker, gRPC

- **Amazon** Seattle, WA  
2021 - 2023  
*Software Development Engineer II*
  - Drove end-to-end design and launch of contextual ads, partnering with different stakeholders to drive engagement and increase revenue by 25%.
  - Designed and led migration from client-side to service-side hydration for fireTV, reducing device load time by 60%
  - Implemented a new service design to improve screensaver ads on Fire TV, reducing latency by 20%
  - Created a library to reconcile partner-specific IDs with internal targeting systems, increasing usable ad supply.

*Languages & Technologies used:* Java, Amazon Web Services, Lambda, DynamoDB, EC2, REST APIs

- **Jaipur Rugs** Jaipur, India  
2018 - 2020  
*Software Developer*
  - Eliminated manual Excel-based workflows by introducing a mobile app, reducing data entry bottlenecks by 90%
  - Rebuilt legacy mobile apps into a single cross-platform Flutter app, enabling a 40% growth in user base.
  - Developed and managed 50+ backend REST APIs spanning across 500k datasets in SQL.
  - Earned Special Mention award at 10th mBillion South Asia's award for TaanaBaana Mobile App in Feb '20.

*Languages & Technologies used:* Java, Flutter, Kotlin, PHP, Tableau, Microsoft Dynamics NAV

## EDUCATION

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- **University of Washington** Seattle, WA  
2020 - 2021  
*Master of Science in Computer Science*
  - Intern at Slalom Build in 2021
- **Jaipur Engineering College and Research Center** Jaipur, India  
2014 - 2018  
*Bachelor of Technology in Information Technology*
  - Intern at Jaipur Rugs in 2017 (Red Hat Certified; RHCE & RHCSA)

## PROJECTS

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- **Semi-automated system for fixing Open Street Maps connectivity (Master's Capstone)**
  - Worked closely with Microsoft on the scalability and adaptability of Open Street Maps to reach parity with existing map services. [Open-Source project]
  - Algorithmic Improvement: Optimized pre-processing time of raw data by 80% by replacing the existing BFS algorithm with A\* algorithm implementation.