Haramrit Singh Khurana

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Senior Software Engineer

- **Top 1% Ownership Mentality:** Spearheaded foundational automation and diagnostics efforts for Citi's DBaaS platform — reducing developer and SRE effort by 60%+ and becoming the go-to for high-risk delivery.
- **Org-Wide Data Infrastructure Impact:** Built high-throughput ingestion pipelines processing 30K+ nested records and 50K+ app metadata entries — powering real-time visibility across 4+ platform teams.
- **Production Stability Under Pressure:** Independently diagnosed and resolved a system-breaking provisioning outage — restoring PROD stability within hours and earning leadership trust across environments.

Core Competencies

Full Stack Development | Front-End Architecture | Backend Services | API Design | System Design | Java | Spring Boot | Node.js | React | GraphQL | RESTful Services | Performance Optimization | Infrastructure Scaling | Data Modeling | CI/CD Integration | Cross-Functional Collaboration | Product-Led Development | Stakeholder Communication | Code Quality & Standards | Test Automation | Ownership Mentality | Developer Productivity

Full Stack Software Engineer, AVP | Citibank | 2022 – Present

Driving automation, observability, and scale for Citi's internal DBaaS platform serving 500+ global teams.

- **Automated manual regression testing:** Replaced all regression testing with the team's first-ever automation suite, integrated into nightly pipelines — saving 60% of developer time and accelerating feature delivery.
- **Centralized app team data at scale:** Delivered a high-volume ingestion pipeline enabling entire DBaaS organization to access real-time company-wide metadata from a unified source.
- **Enabled self-service diagnostics:** Created real-time troubleshooting tools for database issues, cutting SRE load by 30% and empowering customers to debug independently.
- **Resolved production-breaking bottleneck:** Diagnosed and optimized a backend query with excessive compute cost, restoring production within hours and preventing future provisioning outages.
- **Eliminated recurring approval issues:** Replaced brittle, code-level approval metadata with a dynamic backend config — enabling self-serve updates by SREs and accelerating release adaptability post-reorg.
- **Led release planning across teams:** Coordinated production releases for 4+ product and infra teams, ensuring full test coverage, stakeholder alignment, and zero regressions across environments.
- **Led onboarding and knowledge transfer:** Authored onboarding guides and walkthroughs that reduced ramp-up time for new hires by 40%.

Software Engineer | Optimal Satcom Inc | 2021 – 2022

Modernized legacy tooling and stabilized core systems for enterprise SATCOM capacity management.

- **Modernized internal applications:** Migrated legacy tooling to a modern architecture — resolving UI crashes and boosting system reliability for key customer workflows.
- **Stabilized critical backend logic:** Rewrote high-risk modules responsible for silent failures, resolving longstanding crashes and patching deprecated logic across production systems.
- **Redesigned core database workflows:** Optimized complex triggers and stored procedures to improve data consistency and optimize system performance under load.
- **Enhanced stakeholder reporting:** Upgraded reporting infrastructure to decode usage patterns and generate actionable insights for external clients.
- **Pioneered new operational mode:** Integrated a third mode of operation into the flagship product — expanding customer capabilities and improving platform flexibility.

Software Engineer Intern | Nexus 8 International, LLC | 2020 - 2020

Built secure healthcare portal features that improved upload speed and ensured HIPAA compliance.

- **Improved file upload performance:** Optimized upload logic to reduce transfer time by 30% — enabling faster patient record handling.
- **Built full-stack features:** Developed and maintained full-features for the company's flagship product "Hippra", making sure all data and workflows are HIPAA compliant.

Education

MS Computer Science: George Mason University, Fairfax, VA

BE Computer Engineering: University of Mumbai, Mumbai, India

"...If you need someone who takes initiative, drives projects forward, and lifts everyone around him, Haramrit's your guy."
Nestor Hernandez, Vice President, DBaaS - Citibank