

# HARSHITA SINGH

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## EDUCATION

**NEW YORK UNIVERSITY, Courant Institute of Mathematical Sciences**

**New York, NY**

*Master of Science in Information Systems*

**May 2026**

*Specializations in Computer Science and Technology Management*

*Courses: Fundamental Algorithms, Database Systems Data Communication and Networks, Digital Strategy*

*Graduate Assistant: Tutored undergraduate students in Data Structures—grading finals and assignments.*

**INDIRA GANDHI DELHI TECHNICAL UNIVERSITY FOR WOMEN**

**Delhi, India**

*Bachelor of Technology in Computer Science Engineering (GPA: 3.85/4)*

**May 2020**

- Ranked in top 10% of student cohort

## WORK EXPERIENCE

**Morgan Stanley** (*Global financial services firm with an estimated annual revenue of \$56.12B*)

**Bengaluru, India**

**Senior Technology Associate**

**2023 - 2024**

- Developed Scala-based applications to address inefficiencies in the securities risk framework, automating calculations and **enabling over 1K+ test executions on the Optimus platform**, which streamlined QA workflows
- Revamped tool applications on one of the largest **Scala codebases** to tackle repetitive code issues, refactoring code into reusable components, reducing the codebase by 30%, and enhancing performance and load times by 40%
- Managed client support using the **Kaizen framework**, ensuring efficient issue resolution and successful **PR building and deployment**. Triggered pipeline logs, identified issues, and drove continuous platform improvements

**Philips Pvt. Ltd** (*Global Healthcare Technology with annual revenue of \$19.5B*)

**Bengaluru, India**

**Senior Development Engineer II**

**2022 - 2023**

- Spearheaded product roadmap as Scrum Master, partnering with the Product Manager to optimize scope, write user stories, and delegate tasks. Accelerated delivery by a month and improved estimation by 50%.
- Managed and mentored five developers, **conducting weekly reviews of 1K+ lines of code** and providing tailored feedback, **driving improvements in microservice integration** and data querying for the healthcare digital suite
- Implemented and deployed a 300,000-line healthcare application with scheduling features using Java, streamlining appointment management and increasing scheduling efficiency by 30%, reducing administrative time by 20%
- Enhanced system stability by testing, deploying, and debugging across QA and production environments. **Automated test cases with Gherkin scripts**, optimizing feature rollouts and accelerating product iterations

**Software Engineer I**

**2020 - 2022**

- Led caching system development for healthcare platforms, optimizing in-memory storage by developing a **Java Spring Boot API for cache storage**, boosting data retrieval speed by 30% and reducing server load times
- Managed CI/CD pipeline implementation with **Terraform**, automating deployments and comprehensive testing, **including unit, functional, and integration tests**. Improved reliability by 25%, minimizing errors and delays.
- Integrated standalone applications with **AWS S3 to enhance data storage and API performance**, enabling seamless integration with **microservices consuming data via Kafka**, which resulted in a 40% improvement in response times

## INTERNSHIPS AND PROJECTS

**Synopsys** (*Global leader in electronic design automation with annual revenue of \$5.08B*)

**Summer 2018**

Created applications for Lynx Design System test cases by automating data sheet generation with Perl and converting scripts to tables using Regex, JavaScript, HTML5, and CSS3, resulting in enhanced data accuracy and efficient reporting.

**B-Tree Data Structure Implementation**

**Summer 2019**

Enhanced RDBMS query performance by implementing a B-Tree indexing system in Java, optimizing index seek over table scans for faster retrieval. Built a real-time PHP/HTML monitoring dashboard, reducing I/O bottlenecks and latency.

## ADDITIONAL INFORMATION

- **Eligible for STEM OPT:** provides up to 36 months of US work authorization
- **Languages:** Java, Scala, Python, JavaScript, C#, ASP.NET Core, Perl, Tcl/Tk, HTML, CSS, SQL
- **Technicals:** Spring Boot, Node.js, React, Apache Kafka, Docker, Cloud Foundry, PostgreSQL, AWS S3, MongoDB, Postman, REST, Apache JMeter, Cloud Foundry, Grafana, OpenTelemetry, Git, Jira, Azure, Confluence
- **Skills:** Agile methodologies, Product Road mapping, writing user stories
- **Awards:** Achieved 3rd place in NPCI API Accelerator Hackathon by developing a CMR grievance redressal app using Android Studio and Java, leading the app design to enhance user experience and complaint management