Harishita Gupta

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Education

San Jose State University, SanJose	**Jan 2025 - Dec 2026 (Expected)**

Master of Science, Software Engineering (Specialization: Enterprise Software Technologies)
Coursework: Cloud Computing, Enterprise Distributed Systems, Software System Engineering

Career Point University, India	**Jul 2012 - Jul 2016**

Bachelor of Engineering, Computer Science Engineering
Coursework: Data Structures & Algorithms, DBMS, Operating Systems, Computer Architecture

Technical Skills

Programming Languages: Java, Python, C++, JavaScript, SQL, Bash
Tools & Frameworks: Spring Boot, REST, Microservices, Docker, AWS, Git, Jenkins, JUnit, React, Angular
Technologies: Distributed Systems, API Design, Scalable Systems, Cloud Computing, CI/CD, Agile/Scrum, Authentication & Authorization, System design, Object-oriented programming

Professional Experience

Harman Connected Services	**Bangalore, India**
Senior Software Engineer, Amdocs	Mar 2022 – Sep 2023

- Developed REST microservices for T-Mobile's DigitalONE, boosting data flow by 40% during migration.
- Implemented complex JSON parsing, improving reliability & resolution speed in critical workflows.
- Delivered features in Agile sprints, applying unit/integration testing and secure API design principles.

Trinity Mobility	**Bangalore, India**
Senior Software Engineer, EWDS	Apr 2021 - Mar 2022

- Designed and developed RESTful and event-driven APIs powering real-time disaster management workflows for 1,000+ operators across 20+ cities.
- Boosted system performance by 35% (SQL, caching, Hibernate), increased test coverage by 20% (Mockito), and enhanced operator efficiency with an AngularJS UI

Software Engineer, LMS	May 2020 - Apr 2021

- Led development and deployment of TrinityLearn LMS, adopted by 2,000+ recruits.
- Deployed TrinityLearn on Azure with CI/CD (Maven, Jenkins), cutting release time by 30%.
- Ensured 95%+ uptime through continuous monitoring and maintenance.
- Customized open-source platforms (Sakai LMS, Sentrifugo HRMS) to extend LMS functionality.

Tata Consultancy Services	**Bangalore, India**
Application Developer, Xoserve	Mar 2019 - Apr 2020

- Enhanced legacy system reliability, resolved critical bugs, and automated deployments with Maven.

EClinicalWorks	**Bangalore, India**
Software Specialist, EHR	Sep 2017 - Feb 2019

- Maintained EHR system, troubleshot using Tomcat & SQL tools, and increased overall system reliability.

Academic Projects

DataForge Analytics Engine	Github	C++, Clang, CMake, OpenMP, Muti-threding	**Apr 2025 - Present**

- Engineered a custom analytics engine from scratch to benchmark row vs. columnar layouts on millions of records, identifying an optimal data structure that delivered up to 160x faster query performance..
- Optimized ingestion by designing a multithreaded pipeline, analyzing hardware impact to achieve peak throughput (3.16x), and currently scaling the system for distributed, multi-node processing using MPI.

Eventure	Github	Spring Boot, React, MongoDB, REST APIs, JWT, PayPal Sandbox	**Apr 2025 - Jun 2025**

- Built an event management platform with event creation, booking, payments, and authentication.

OpenTable	Github	React, MaterialUI, Django, PostgreSQL, AWS	**Apr 2025 - Jun 2025**

- Designed the frontend for a restaurant reservation platform with search, booking, approval, and maps.

Awards and Achievements

- **Adobe Student Ambassador (Aug 2025 - present)** Selected to represent Adobe Express at SJSU.
- **Trinovator Award Trinity Mobility (2021)**, honored for outstanding innovation in technology during the Trinity 2.0 transformation journey among 200+ employees.