Harishita Gupta

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EDUCATION

San Jose State University: Master of Science in Software Engineering   Dec 2026
Specialization: Enterprise Software Technologies
Relevant Coursework: Cloud Computing, Enterprise Distributed Systems, Software System Engineering, Data Structures and Algorithms, Data Mining, Design patterns, DBMS, Computer Architecture, Foundations of Programming Languages, Natural Language Processing, Object-Oriented Programming, Operating Systems, Software Engineering Principles, Web Applications.

TECHNICAL SKILLS

Languages: Java, Python, C++, JavaScript, SQL, Bash, HTML, CSS, XML
Tools & Frameworks: Spring Boot, REST, Django, Fast API, 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, Message queue, Prompt Engineering
AI: OpenAI API, Gen AI, LLMs, NLP, RAG, Prompt Engineering, Hugging Face Hub, Copilot, Cursor, Claude, ML, Data Mining
Cloud: AWS, Azure, Google Cloud
Other: Git, Jira, Agile, Docker, Kubernetes, RabbitMQ, NumPy, Pandas, Scikit-learn, TensorFlow

PROFESSIONAL EXPERIENCE

Harman Connected Services, India   Mar 2022 - Sep 2023
Software Engineer, Amdocs
- Built the Java middleware that migrated T-Mobile's billing system from a legacy XML setup to a modern JSON architecture, handling data for over 5 million subscribers.
- Wrote custom data adapters to map complex, nested XML fields to the new format, ensuring the new bills matched the old ones with 100% accuracy.
- Designed parallel automated validation tests to catch critical data errors pre-launch, protecting live user accounts.

Trinity Mobility, India   May 2020 - Mar 2022
Software Engineer, EWDS
- Developed the backend for a real-time emergency response system tracking incidents across 20+ cities.
- Implemented WebSocket alerts to push critical updates instantly to the dashboard, cutting operator reaction time to under 1 second.
- Optimized high-volume SQL queries to ensure the system remained stable and responsive even during emergency spikes with thousands of incoming signals.

Software Engineer, LMS
- Led the customization of an open-source LMS (Sakai) to create a training portal for 2,000+ police officers, saving the client significant budget on proprietary software.
- Integrated video conferencing and SSO, enabling a seamless transition to a 100% remote training model.
- Managed the entire release cycle as the sole developer—from coding features to server deployment—maintaining 99% uptime for the training portal.

PROJECT EXPERIENCE

DataForge Analytics Engine | C++, Clang, CMake, OpenMP, Muti-threading   Sep 2025
- 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 (3.6x), and currently scaling the system for distributed, multi-node processing using MPI.

Eventure | Spring Boot, React, MongoDB, REST APIs, JWT, PayPal Sandbox   Apr 2025
- Built a full-stack platform supporting event creation, browsing, and secure bookings with JWT auth and Google Maps.
- Enabled secure payments with PayPal Sandbox, automated QR code email confirmations, and deployed the system on AWS EC2 with MongoDB Atlas and CI/CD pipelines.

OpenTable | Python, Django, React, MaterialUI, PostgreSQL, AWS Apr 2025
- Designed the frontend for a restaurant reservation platform with search, booking, approval, and maps.

Awards and Achievements

- **Adobe Student Ambassador (Aug 2025 - present)** representing and promoting 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.