

# GARIMA MATHUR

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## SUMMARY

Software Engineer with **3+ years of experience** building, optimizing, and operating **large-scale, low-latency distributed systems** in client-facing environments. Proficient in **Python, C++, Java, and Linux**, with a focus on **Concurrency, performance tuning, system reliability, and production ownership**. Strong background in delivering **high-quality software end-to-end, collaborating cross-functionally**, and supporting systems serving **millions of users**.

## EDUCATION

Master of Science in Business Analytics   <b>University of California, Davis, San Francisco, USA</b>	Aug. 2024 – Aug. 2025
• <b>Coursework:</b> Advanced Statistics, Machine Learning, Data Management, Big Data Analytics	(GPA: 3.67/4)
Bachelor of Engineering in Electronics and Computer   <b>MBM Engineering College, Jodhpur, India</b>	Aug. 2017 – Aug. 2021
• <b>Coursework:</b> Data Structures & Algorithms, Database Management, Operating Systems	(GPA: 8.34/10)

## EXPERIENCE

Data Augmentation Intern   <b>Bevalty, San Francisco, USA</b>	Jun. 2025 – Aug. 2025
• Built and optimized distributed <b>Python prototype for customer profiling integrated with Supabase and REST APIs</b> , increasing ingestion <b>throughput by 30%</b> , enabling timely business insights for marketing and analytics teams.	
• Owned automation of customer profiling <b>using KMeans</b> , improving dataset quality by <b>60% for data augmentation</b> .	
• Implemented multi-schema validation across <b>10+ TypeScript schemas</b> to improve <b>GA4 events (engagement, churn, LTV)</b> .	
• Collaborated with analytics and product teams to <b>productionize ML-driven pipelines</b> , improving model deployment.	
Project Manager   <b>ExPrep (Practicum Experience), San Francisco, USA</b>	Aug. 2024 – Jun. 2025
• Led a cross-functional team of 4 to build <b>SQL-driven pipelines</b> supporting <b>80,000+ active students</b> across <b>80+ universities</b> .	
• Performed advanced SQL analysis on <b>10,000+ records</b> to identify data quality gaps and enhance backend processes.	
• Collaborated with stakeholders to define 5 KPIs for system performance, user engagement, and data pipeline efficiency.	
Senior Software Engineer   <b>Accolite Digital, Gurugram, India</b>	Nov. 2023 – Jul. 2024
• Redesigned <b>COM call handling in C#/C++</b> , implementing <b>tokenized authorization across 40+ modules</b> , reducing unauthorized access vectors.	
• Improved <b>User Manager service (MariaDB) serving 2.5M+ users</b> , with reduced query failures and higher system uptime.	
• Collaborated closely with product managers and QA to deliver <b>production-quality features</b> through the full SDLC.	
Software Engineer   <b>Accolite Digital, Gurugram, India</b>	Sep. 2021 – Oct. 2023
• Upgraded <b>Mesa 3D Graphics Library (v7.8 → v21.2.3)</b> for Linux-based rendering, optimizing OpenGL/OSMesa APIs to support high-frequency visualization with reduced latency.	
• Debugged <b>large-scale data pipelines</b> impacting <b>3M+ users</b> , resolving parameter-mapping issues to improve data accuracy.	
• Orchestrated <b>unit, integration, and system-level tests in Java</b> , triaged performance bottlenecks and production issues.	

## TECHNICAL SKILLS

• <b>Languages:</b>	Python, Java, C++, SQL, TypeScript, Linux
• <b>Distributed &amp; Software:</b>	System Design, Concurrency, Caching, Low-Latency Services, REST APIs, Distributed Systems
• <b>Cloud &amp; DevOps:</b>	AWS, GCP, Azure, Docker, Kubernetes, CI/CD, Monitoring & Observability, Logging, Metrics
• <b>Databases:</b>	PostgreSQL, MariaDB, MongoDB, BigQuery, Supabase

## PROJECTS

SchedWiz – Your AI Study Wizard (Tech Stack: Python, Streamlit, PyTorch, PySpark, TensorFlow)	Jun. 2025
• Designed a <b>highly interactive web application</b> supporting 32,000+ concurrent users, integrating real-time schedule updates and <b>predictive ML models</b> .	
• Trained a <b>multi-layer perceptron</b> achieving 73.3% accuracy, <b>integrated caching and concurrency</b> to ensure response times.	
Ace the Space (Tech Stack: Python, Machine Learning, BERT, SVM, Advanced Statistics)	Mar. 2025
• Architected a machine learning-driven resume scoring system utilizing <b>BERT embeddings, SVM, and cosine similarity</b> , processed 24,000 job descriptions and 2,000+ resumes, <b>to enhance candidate-job match accuracy</b> .	
• Achieved over <b>85% accuracy and 80% precision</b> in candidate-job match predictions, <b>improving 20%</b> compared to baseline.	

## AWARDS

- Led **GEN AI Hackathon Team**, shortlisted Top 9 (Accolite Digital, Aug 2023)
- Received **Client Appreciation** for delivering critical milestone ahead of schedule (Accolite Digital, Dec 2021)