

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

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

EXPERIENCE

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

TECHNICAL SKILLS

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

PROJECTS

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| SchedWiz – Your AI Study Wizard (Tech Stack: Python, Streamlit, PyTorch, PySpark, TensorFlow) | Jun. 2025 |
| • Designed a highly interactive web application supporting 32,000+ concurrent users, integrating real-time schedule updates and predictive ML models . | |
| • Trained a multi-layer perceptron achieving 73.3% accuracy, integrated caching and concurrency 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 BERT embeddings, SVM, and cosine similarity , processed 24,000 job descriptions and 2,000+ resumes, to enhance candidate-job match accuracy . | |
| • Achieved over 85% accuracy and 80% precision in candidate-job match predictions, improving 20% 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)