Keshav Jha

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Profile

Final-year Computer Science Engineering student (2026) with strong foundations in **Data Analytics, Python, and SQL**. Passionate about building scalable pipelines and automation workflows. Seeking to leverage analytical skills to drive engineering solutions at Deloitte.

Education

Delhi Technical Campus (GGSIPU), B.Tech in Computer Science — Nov 2022 – Expected Nov 2026

- **Coursework:** Data Structures & Algorithms, DBMS, Operating Systems, Computer Networks, Machine Learning, Information Retrieval.

Experience

Lead AI Engineer & DevOps Architect, SNK Consultancy – New Delhi — Aug 2024 – Present

- Spearheading the **AI/ML strategy** and **cloud infrastructure**; architecting scalable pipelines to serve machine learning models for high-throughput consultancy operations.
- Managing the complete DevOps lifecycle; implemented **Docker** containerization and **GitHub Actions** CI/CD pipelines to automate testing and reduce deployment latency by 40%.

Founder & Lead Developer, MetroMint (formerly She&Soul) – New Delhi — Jan 2024 – Aug 2024

- Architected the backend using **FastAPI**, **PostgreSQL**, and **Redis**; designed REST APIs, JWT auth, and a multi-tenant data model.
- Built automation workflows for payments and notifications; implemented rate limiting and zero-downtime migration strategies.

Projects

Financial Market Sentiment Analysis Engine | *Python, Pandas, Data Analytics* — Jan 2026

- Engineered a data pipeline to ingest and aggregate **14,000+ high-frequency trade records**, ensuring data integrity by filtering incomplete execution logs.
- Conducted statistical analysis to correlate **Market Sentiment (Fear/Greed Index)** with trader ROI, identifying key profitability regimes (e.g., Altcoin Rotation).
- Generated automated visualization reports to drive data-backed decision-making strategies.

Neuro-Stream — Distributed Parameter Server | *Python, gRPC, ML Infra* — Oct 2025 – Present

- Built a parameter-server prototype in Python/**gRPC**, coordinating N workers sending asynchronous gradient updates during training.
- Experimented with bounded-delay asynchronous updates to study stale-gradient effects; used **Int8** quantization to cut gradient payload size by 75% in tests.

Raft-Cluster — Distributed Consensus System | *Python, asyncio, TCP/IP* — Aug 2025 – Oct 2025

- Developed a fault-tolerant key-value store implementing the **Raft** consensus algorithm (leader election and log replication) to keep replicas in sync across a 3-node cluster.

Achievements

Competitive Programming: LeetCode Knight (Top 3%, Max 1938) • CodeChef 5 Star (Max 2077, India Rank 540) • GeeksForGeeks Global Rank 41 (Max 2180) • Codeforces Top 0.6% (Global Rank 327)

Technologies

Languages: Python, C++, Go, SQL, JavaScript
Systems: Linux/UNIX, TCP/IP, Docker, gRPC, Git, GitHub Actions
Data & ML: Pandas, NumPy, PyTorch, PostgreSQL, Redis
Tools: VS Code, Postman, **Microsoft Office Suite (Excel, PowerPoint, Word)**