

Rajveer Singh Saggu

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SUMMARY

AI & Software Engineer passionate about blockchain and crypto, building secure, high-frequency, cloud-deployed applications.

EDUCATION

Birla Institute of Technology, Mesra

2023 – 2027

B.Tech in Electronics and Communication Engineering

CGPA: 8.85 / 10

EXPERIENCE

Software Engineering Intern – Data & AI Systems

May 2025 – Jul 2025

Outrix

Remote

- Designed containerized **data pipelines** & **REST APIs** serving 1M+ records, reducing manual reporting by 20%.
- Automated **ETL + ML workflows**, improving operational efficiency by 30%.
- Conducted **latency profiling** and **reliability testing** for scalable model deployments.
- Optimized **SQL queries** and concurrent processes, boosting throughput and uptime.

Software Engineering Intern – Cybersecurity AI

Apr 2025 – May 2025

CDAC

Remote

- Built **log-processing pipelines** handling 10M+ events/day for anomaly detection and visualization.
- Integrated **AI detection modules** into enterprise SIEM, reducing false positives by 15%.
- Deployed **Dockerized monitoring microservices** for reproducible, modular scaling.

Algorithmic Trading Strategy Intern

Feb 2025 – Mar 2025

Lunor AI

Remote

- Developed deterministic **multi-coin trading strategies** using Python/C++ with SQL-driven data streams.
- Built **backtesting frameworks** evaluating Sharpe ratio, drawdown, and profitability metrics.
- Implemented **volatility-adjusted optimization** for stable strategy performance under real-time data.

PROJECTS

MedLedger – Decentralized Personal Health Record App — Solidity, Web3.js, React, IPFS, Docker [GitHub](#)

- Built a secure blockchain-based platform allowing patients to manage health records via Ethereum smart contracts.
- Implemented role-based access control for patients, doctors, and hospitals to ensure privacy.
- Integrated IPFS for decentralized storage handling 10k+ records securely in real-time.

Mini-Document Validator — Python, FastAPI, Generative AI, Docker, PostgreSQL

[GitHub](#)

- Built an AI-powered **validation microservice** combining LLM parsing and rule-based verification.
- Implemented async **FastAPI pipelines** with persistent PostgreSQL storage for high reliability.
- Containerized the system using Docker, ensuring portability and scalable deployment.

Ilaaj – AI Medical Assistant — Python, LangChain, FAISS, Flask, AWS

[GitHub](#)

- Developed a **RAG-based medical assistant** using FAISS semantic search and LLM reasoning.
- Automated triage workflows, reducing manual load by 80%.
- Integrated cloud deployment with secure data handling and asynchronous backend APIs.

TECHNICAL SKILLS

Languages: Python, C++, SQL, Solidity, OOP, DSA, Linux CLI

Blockchain & Web3: Ethereum, Smart Contracts, Web3.js, Ganache

Backend & Databases: FastAPI, Flask, REST APIs, MongoDB, FAISS

Cloud & DevOps: Docker, AWS, Git, CI/CD, Kubernetes

ML & AI: PyTorch, TensorFlow, LangChain, HuggingFace, RAG, YOLOv8

ACHIEVEMENTS

- Amazon ML Summer School '25 Scholar** (Top 0.2%).
- 1st Place – Unstop Hackathon**, ranked 2nd overall among 1000+ teams.
- CDAC Merit Scholar** for excellence in AI and advanced computing.
- Contributor to **GSSOC '25** open-source projects (feature enhancements and optimizations).