Vibhor Bhatt

Software Engineer - Site Reliability, Cloud Infrastructure & Full-Stack AI Systems
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SUMMARY

Computer Science graduate (B.Tech CSE, 8.9 CGPA) experienced in owning production systems end-to-end-from diagnosing real-time CDN and microservice anomalies at MakeMyTrip and training unsupervised deep learning telemetry models at DRDO, to architecting full-stack AI analytics platforms, automated AWS governance engines, and decentralized escrow protocols.

EXPERIENCE

Site Reliability Engineer (SRE) Intern - MakeMyTrip

Jan 2026 - Jun 2026 | Gurgaon, India

- Diagnosed production CDN and latency anomalies by correlating Akamai Traffic Reports with AWS ALB access logs, identifying request count deviations and geographic load imbalances in real time.
- Implemented a sidecar logging architecture across Python, Java, and Go microservices with the Datadog agent deployed as a daemon service for unified observability, performing root-cause log analysis with Grafana, Kibana, and Scalyr.
- Managed containerized microservice deployments on AWS EC2 & ECS Fargate via CI/CD pipelines and built a FinOps dashboard for unified multi-cloud cost and resource utilization tracking.

Enterprise Software & SAP Basis / S/4HANA Engineering - Accenture

Apr 2026 - Sep 2026 | India | Offer Signed Apr 2026 · Enterprise Technical Training Jul - Sep 2026

- Completed enterprise engineering tracks across SAP Basis, S/4HANA, SAP BTP, and HANA Multitenant Database Containers (MDC).
- Configured role-based user authorizations, transport management systems, client copies, and background job scheduling across enterprise environments.

Software Engineering & AI Evaluation Contractor - Mercor

2026 - Nov 2026 | Remote

- Designed structured technical evaluation rubrics and reference specifications to benchmark frontier AI model outputs on code correctness, edge-case coverage, and architectural constraints.
- Audited model-generated engineering solutions for production failure modes-identifying defects in concurrency, error handling, scalability, and algorithmic complexity while authoring detailed technical justifications.

Research Intern - Defence Electronics Application Laboratory (DEAL-DRDO)

Jun 2025 - Aug 2025 | Dehradun, India

- Designed and trained an unsupervised LSTM Autoencoder deep learning model in Python to detect anomalies in real-time satellite communication modem telemetry without requiring labeled fault datasets.
- Engineered preprocessing pipelines for high-frequency time-series sensor streams to flag hardware and signal deviations early.

PROJECTS

AI-Powered Personal Finance Tracker (2025 - 2026)

Python, FastAPI, React, MongoDB, Pandas, Gemini AI, Tailwind CSS

- Engineered a full-stack financial analytics platform using React and FastAPI backed by MongoDB aggregation pipelines to compute multi-account cash flow, category breakdowns, and recurring subscriptions using population standard deviation and 28-31 day payment interval filtering.
- Built a fault-tolerant CSV ingestion pipeline in Python (Pandas/Regex) that auto-maps heterogeneous bank statement schemas, repairs shifted CR/DR columns, extracts UPI merchant identifiers, and routes low-confidence entries into a human-in-the-loop review queue.
- Integrated a Gemini natural-language query API alongside interactive analytics dashboards, grounding LLM responses in scoped account transaction histories with structured error handling.

TrustTrade - Decentralized Escrow & Arbitration dApp (2025)

Solidity, Hardhat, Next.js, TypeScript, Wagmi, Viem, Polygon Amoy

- Led a 4-member team to architect a multi-party escrow protocol in Solidity (factory and escrow smart contracts) enforcing a strict 5-state finite state machine with role-gated access modifiers and deterministic on-chain fund settlement.
- Implemented a two-tier dispute-resolution engine featuring DAO voter tallying and automatic escalation to a Chief Arbitrator whenever vote margins fall within a <= 10% tie threshold.
- Developed a Next.js (TypeScript) frontend using Wagmi and Viem to decode contract event logs, monitor real-time state transitions, and gate buyer, seller, and arbitrator actions on Polygon Amoy.

AWS Resource Governance & Security Audit Engine (2026)

Python, Boto3, AWS (EC2, ELBv2, EBS, S3, IAM, CloudWatch, SES), Linux Cron

- Automated cross-regional AWS governance and security auditing engine that programmatically normalizes resource

metadata, extracts 7-day CloudWatch compute metrics to isolate orphaned EBS volumes and unassociated Elastic IPs, audits IAM MFA compliance and access key age, and delivers inline-CSS HTML compliance reports via AWS SES and Linux cron.

Cycle-Accurate Intel 8085 Microprocessor Simulator

C++, Standard Template Library (STL)

- Engineered an instruction-level Intel 8085 microprocessor simulator in C++ leveraging STL containers to emulate opcode decoding, register states, status flags, and memory execution with step-by-step interactive debugging modes for computer architecture demonstrations.

Gensyn AI Decentralized Compute Node (RL-Swarm Testnet) (Jun 2025 - Aug 2025)

Google Cloud Platform (GCP), Python, Node.js, Linux

- Provisioned, configured, and operated a decentralized compute node on a 32GB RAM GCP virtual machine contributing distributed compute resources to Gensyn AI's RL-Swarm testnet for collaborative reinforcement learning on open-source Qwen models.

AI, RAG & Workflow Automation Pipelines

Python, LangChain, Make.com, n8n, Twilio, Vapi AI

- Built end-to-end Retrieval-Augmented Generation (RAG) workflows and webhook-driven automation pipelines integrating voice/messaging APIs and automated event routing.

TECHNICAL SKILLS

Languages: Python, C++, Java, JavaScript, TypeScript, SQL, Bash
Backend & Frontend: FastAPI, Node.js, React.js, Next.js, REST APIs, MongoDB, Pandas
Cloud, DevOps & Security: AWS (EC2, ECS Fargate, ALB, IAM, S3, CloudWatch, SES), GCP, Docker, Kubernetes, Terraform, Ansible, Linux, CI/CD
Observability & Systems: Datadog, Zabbix, OpenTSDB, Grafana, Kibana, Akamai CDN, Distributed Systems, FinOps
AI, Web3 & Enterprise: LangChain, RAG Pipelines, Gemini API, Solidity, Hardhat, Wagmi, Viem, SAP Basis / S/4HANA

CERTIFICATIONS

- AWS Certified Cloud Practitioner - Amazon Web Services (Earned Apr 2026)
- Oracle Certified Generative AI Professional - Oracle Cloud Infrastructure
- Oracle Certified AI Foundations Associate - Oracle Cloud Infrastructure
- PwC Cyber Risk and Regulatory Launchpad Programme - PwC

ACHIEVEMENTS

- 5th Place & Patent Recommendation - ETHIndia Web3 Hackathon 2025: Awarded 5th place overall in Noida for the TrustTrade decentralized escrow and arbitration protocol.
- Open-Source Contributor - Hacktoberfest 2024 (Instill AI): Built an AI pipeline integrating Whisper-1 for audio summarization and GPT-4o-mini for translation.
- LeetCode 365-Day Badge & 500+ Problems Solved: Demonstrated sustained algorithmic problem-solving across C++, Python, and Java.
- INR 5,00,000+ Academic Merit Scholarship: Awarded by Graphic Era Deemed to be University for scoring 95%+ in Class XII board exams and achieving the 88th percentile in JEE Mains.
- Additional Hackathons: Competed in MariTHON 2025 (TBI-GEU Dehradun), Gen AI Exchange Hackathon (Google Cloud & Hack2skill), and SuperNova Hacks (AKINDO).

EDUCATION

Graphic Era Deemed to be University - Dehradun, Uttarakhand

B.Tech in Computer Science and Engineering | Aug 2022 - Jun 2026 | CGPA: 8.9 / 10.0

The Doon International School - Dehradun, Uttarakhand

Class XII (CBSE Science) | Apr 2021 - Jul 2022 | Percentage: 95.0%

The Summer Valley School - Dehradun, Uttarakhand

Class X (ICSE Science) | Apr 2019 - Apr 2020 | Percentage: 96.0%