

Astitva Arya

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SUMMARY

Full-stack and backend developer with hands-on experience in Python, JavaScript/Node.js, distributed systems, and scalable API design. Proficient in Linux environments, Docker containerization, Apache Kafka, and infrastructure monitoring with Prometheus and Grafana. Experienced building end-to-end solutions spanning RESTful backends, Flutter mobile apps, and DevOps pipelines, with a strong foundation in data structures, system design, and maintainable software architecture.

EDUCATION

Indian Institute of Information Technology, Nagpur

Bachelor of Technology in Computer Science and Engineering (Data Science & Analytics)

Expected June 2027

CGPA: 7.49/10

EXPERIENCE

Springer Capital

Backend Developer Intern

Dec 2025 – Present

Remote

- Implemented schema-controlled data streaming using Apache Kafka with Schema Registry and Avro, ensuring structured and validated message flow across 3+ backend extraction services
- Streamlined inter-service communication by integrating Kafka-based event pipelines, reducing data inconsistency errors and improving overall backend reliability
- Provisioned and managed containerized environments using Docker and docker-compose, cutting local environment setup time by approximately 60% for the team
- Collaborated via Git workflows — authored feature branches, raised pull requests, and participated in code reviews following industry-standard development practices

PROJECTS

Distributed Linux Fleet Management System | C++, Linux, Docker, Prometheus, Grafana, libssh | [GitHub](#)

- Engineered a fleet monitoring and orchestration system using Prometheus, Grafana, and a custom multi-threaded C++ controller with REST APIs for node registration, health checks, and status management across 10+ nodes
- Configured Prometheus with file-based service discovery (`file_sd_configs`) for automatic metric scraping, eliminating 100% of manual target configuration updates
- Developed SSH-based remote command execution via `libssh`; provisioned Grafana dashboards tracking CPU, memory, disk, and network with under 5s refresh latency
- Containerized the full monitoring stack using Docker, reducing environment setup to a single command and cutting onboarding time by ~70%

NetGenX – AI-Powered Cyber Incident Platform | Python, TensorFlow, MERN, Docker | [GitHub](#) | [Demo](#)

- Developed ML threat detection system using TensorFlow achieving 95% accuracy on 50,000+ incident samples, reducing analyst triage time from 24 hours to 2 minutes (97% reduction)
- Architected scalable microservices backend with Node.js and Flask REST APIs, JWT auth, Redis caching, and Docker containerization on Linux for horizontal scaling
- Integrated Ethereum blockchain audit logging with Solidity smart contracts and IPFS decentralized storage, securing 100% of audit trail data against tampering

EliteCart – Full-Stack E-commerce Platform | Node.js, TypeScript, Flutter, MongoDB, Redis, Razorpay | [GitHub](#) | [Demo](#)

- Engineered a full-stack e-commerce platform with a Flutter (GetX) mobile frontend and a scalable Node.js/Express/TypeScript backend; architected 50+ RESTful endpoints with JWT + Google OAuth 2.0 and RBAC securing 35+ admin routes
- Integrated end-to-end Razorpay payments with HMAC-SHA256 signature validation and Nodemailer for automated order confirmation emails
- Deployed a Redis cache-aside strategy across 9 indexed Mongoose models reducing read latency by 40%; integrated Firebase Analytics monitoring 1,000+ active user sessions

TECHNICAL SKILLS

Languages: Python, C++, JavaScript, TypeScript, Java, C, SQL, Dart, Bash/Shell

Backend & APIs: Node.js, Express.js, Flask, REST APIs, GraphQL, WebSocket, JWT, OAuth 2.0, Microservices Architecture

Frontend & Mobile: Flutter, GetX, React, HTML/CSS, Firebase (Auth, Analytics)

Databases: MongoDB, PostgreSQL, MySQL, Redis, Mongoose ODM, Database Design, Query Optimization

DevOps & Infra: Docker, Kubernetes, Apache Kafka, Avro, Schema Registry, Prometheus, Grafana, AWS (EC2, S3, Lambda), CI/CD, Nginx, Linux

Tools & Libraries: TensorFlow, Scikit-learn, Pandas, NumPy, libssh, Razorpay, Nodemailer, Cloudinary, Git/GitHub, Postman

ACHIEVEMENTS & LEADERSHIP

- Ranked 5th nationally in IIITM Gwalior Hackathon (2024) among 200+ teams for AI-based agriculture solution
- Finalist (Top 50 of 1,600 teams) in Medecro.ai National Healthcare Hackathon (2024)
- Solved 250+ DSA problems on LeetCode (Rating: 1500+) focusing on system design and algorithms