

# ARNAV JOSHI

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IT undergraduate specializing in **Full-Stack Development**, **Cloud Computing**, and **AI/ML**. Expertise in scalable web apps, microservices, REST/GraphQL APIs, serverless systems, and containerized cloud deployments. Experienced in Agile, CI/CD, automated testing, and cloud-native monitoring.

## EDUCATION

**B.Tech in Information Technology (Honors)**, Shri Ramdeobaba College of Engineering and Management, 2023–2027 CGPA: 9.0

## PROFESSIONAL EXPERIENCE

**Full Stack Developer Intern — Youniformwala** Remote — May–Aug 2025

- Developed and maintained a scalable **Next.js + Flask + SQLAlchemy** e-Commerce platform with modular microservice architecture.
- Integrated JWT authentication, OAuth2.0, and role-based access control (RBAC) to secure APIs.
- Optimized database queries and API endpoints, reducing latency by 25%.
- Implemented CI/CD pipelines with **GitHub Actions** and Docker for production deployment on AWS EC2.
- Configured CloudWatch monitoring and log for proactive error detection.

**Technical Co-Head — Colosseum 15.0** Nagpur — Jan–Feb 2025

- Led a 5-member team to build a high-concurrency web application that supports 2K + users.
- Designed JavaScript-based interactive event games with modular ES6 classes and state management.
- Optimized backend REST APIs using Node.js/Express, improving response time by 30%.
- Implemented real-time WebSocket notifications for live engagement.

**Tech Intern — CompEx 2025** Nagpur — Jan 2025

- Built real-time scoreboard system using **React + Firebase Realtime DB** for 100+ users.
- Automated data aggregation with Firebase Cloud Functions, reducing latency by 35%.
- Integrated authentication, role-based dashboards, and analytics for event management.

**Technical Board of Director — Rotaract Club RBU** Nagpur — Jul 2024 – Present

- Managed technical infrastructure: event websites, live streaming, and cloud databases.
- Developed interactive registration portals using **Next.js + Firebase**.
- Created automated analytics dashboards for participant engagement.
- Supervised content deployment, version control, and CI/CD pipelines.

## PROJECTS

**ThreatShield AI** 🌐 Live — 🐙 Code

- Proactive threat intelligence dashboard using **Next.js**, **GROQ**, and Python microservices.
- Multimodal pipelines for text, image, and audio input, reducing detection time by 40%.
- Real-time threat classification with automated alerts via WebSockets and REST APIs.
- Deployed on Vercel with Dockerized microservices for scalability.

**EduBot** 🌐 Live — 🐙 Code

- AI-powered learning assistant using **Next.js + Flask + Gemini API**.
- Generates dynamic quizzes, flashcards, and semantic summaries.
- Performance dashboards tracking user efficiency (+35% improvement).
- CI/CD pipelines with serverless AWS Lambda deployment.

**Smart-Shop** 🌐 Live — 🐙 Code

- Serverless retail checkout system using **Next.js + AWS Lambda + MongoDB**.
- Event-driven automation for inventory, QR-based checkout, and real-time analytics.
- Modular architecture with unit tests and API documentation.
- Reduced checkout errors by 40%.

**AI Misinformation Detection Agent** 🐙 Code

- AI-powered misinformation detection system with **Flask**, transformer NLP, and **ElasticSearch**.
- Semantic indexing, real-time classification, and pattern detection.
- Optimized queries and transformer inference for sub-second response times.
- Automated ingestion and preprocessing pipelines for continuous updates.

**Infinity Quest** 🐙 Code

- Retro-style JS adventure game with sprite rendering, AI-driven pathfinding, collision detection, and 60 FPS gameplay.
- Modular JS architecture with optimized asset pipeline.
- Interactive enemy behaviors and dynamic scoring system.
- Real-time debugging and performance profiling for seamless experience.

## TECHNICAL SKILLS

**Frontend:** React, Next.js, HTML5, CSS3, Tailwind, Redux, ES6, Responsive Design, Webpack, Vite  
**Backend:** Node.js, Express, Flask, REST APIs, GraphQL, Microservices, JWT, OAuth2.0, WebSockets  
**Databases:** MongoDB, SQL (PostgreSQL/MySQL), Firebase Realtime/Firestore, ElasticSearch, Redis  
**AI/ML:** TensorFlow, PyTorch, OpenCV, Hugging Face Transformers, NLP, GANs, Image/Audio Processing  
**Cloud/DevOps:** AWS (EC2, Lambda, S3, CloudWatch), Azure, Docker, Kubernetes, CI/CD, Serverless, GitHub Actions  
**Tools & Others:** Git, GitHub, Agile/Scrum, Jira, Postman, Figma, VSCode, Linux, Bash, Shell Scripting