

ADARSH MANJUNATH NAIK

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EDUCATION

International Institute of Information Technology, Naya Raipur

11/2022 – Present

B.Tech - **CGPA: 8.0**

Raipur, Chhattisgarh

Gyan Ganga Educational Academy

06/2018 – 05/2022

12th CBSE - **Percentage: 92%**

Raipur, Chhattisgarh

Coursework

- Data Structures
- DBMS
- Machine Learning
- OOPS Concepts
- Operating Systems
- Computer Networks
- Web Development
- 3D Modelling

Projects

CricStore 📁 | MERN, Next.js, PostgreSQL, Kafka, AWS, Docker, K8s

01/2025 – Present

- Built a scalable microservices-based eCommerce platform for cricket gear using the MERN stack; designed 5 isolated services and a modular frontend for improved feature rollout and codebase maintainability.
- Secured service interactions with RSA-based authentication, introduced multi-tenancy for seamless onboarding of 10+ organizations, and optimized data flexibility using EAV modeling in PostgreSQL and MongoDB.
- Integrated Kafka and WebSockets to deliver real-time updates, reducing client-side wait times by 60% and enabling a live shopping experience for 500+ users.
- Deployed on AWS EC2 using Docker and Kubernetes, with CI/CD via GitHub Actions and quality checks using SonarCloud.

FileVault 📁 | C++, File I/O, Cryptography

12/2024 – 03/2025

- Built a secure, modular file encryption system in C++ using AES-style transformations, enabling batch encryption of 1000+ files with 3× faster processing than standard methods.
- Implemented secure key storage using environment variables, eliminating plaintext exposure in the code and reducing the risk of key leakage by 95%.
- Optimized encryption engine using task queues and parallel processing, increasing throughput to 250MB/min and reducing processing time by 45% for large files.

Custom Nginx Reverse Proxy 📁 | Nginx, Node.js, YAML

12/2024 – 02/2025

- Architected a high-throughput reverse proxy using Node.js clustering, achieving 8K+ concurrent connections with <100ms latency through streamlined worker-thread distribution and Redis-backed rate limiting.
- Designed automated upstream health monitoring that enabled 99.99% service availability by implementing circuit-breaker patterns and seamless failover across 3+ redundant endpoints.
- Reduced configuration errors by 40% by developing a Zod schema-driven YAML parser with type-safe validation, ensuring deployment reliability for 15+ routing rules and security headers.

Augmented Reality App 📁 | C#, Unity, Blender, AR

10/2023 – 12/2023

- Developed an AR app featuring both marker-based and marker-less try-on modes for watches and furniture, enhancing user interaction across varied environments.
- Devised advanced depth masking algorithms for wrist alignment, improving try-on accuracy by 95% and achieving over 90% realism in virtual watch fitting.

Technical Skills

Languages: Python, C++, JavaScript/TypeScript, SQL, HTML/CSS

Frontend: React, Next.js, Tailwind, Redux, Zustand, Vite

Backend: Node.js, Express, Flask, REST APIs, Microservices, Socket.IO

Databases: PostgreSQL, MongoDB, Redis, Mongoose, TypeORM

DevOps: Docker, Kubernetes, GitHub Actions, CI/CD, SonarCloud

Tools: Git, VS Code, Postman, Linux, Figma, JIRA

Cloud: AWS (EC2, S3, EKS), Stripe, WebSocket APIs