


Nilesh Deshpande



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Professional Experience



Freelance Developer Jul 2024
Maulana Azad Polytechnic, Solapur 

- **Built and optimized backend infrastructure:** Improved admissions efficiency by 30%, ensured 99.9% uptime, boosted data access by 40%, and automated backups with minimal data loss.
- **Streamlined operations:** Reduced issue resolution time to 30 minutes and debugging time by 20% with enhanced monitoring and logging.



Projects

Study Notion (MERN App) 
Tech Stack: React.js, Tailwind CSS, Express.js, MongoDB
GitHub 

- Designed and implemented **user interfaces** using React.js and Tailwind CSS, creating responsive and intuitive designs that enhanced user experience and interaction.
- Integrated **Cloudinary API**, improving media **upload** and **retrieval** times by 50%, and leveraged **Razorpay** for secure online payments. Deployed an **email system** for OTPs and password resets.

HLS with Adaptive Bitrate Streaming (Web Application) 
Tech Stack: React, Node.js, Express.js, Socket.IO, gRPC, MongoDB, Docker, Messaging Queues, Oracle Cloud Bucket
Github 

- **Engineered** a video processing pipeline for adaptive bitrate HLS streaming, leveraging **Dockerized services** and **messaging queues** to streamline transcoding and chunking workflows.
- **Deployed** the application on **Oracle Cloud**, utilizing **Oracle Cloud Buckets** for scalable and efficient video storage and retrieval.
- **Crafted** a minimalist React-based frontend for a live demo and **orchestrated** the backend using Express.js and MongoDB to handle metadata management and video delivery efficiently.

EcoHarvest (Mobile App) 
Tech Stack: React Native, Node.js, Express.js, MongoDB
GitHub 

- Developed a high-performance mobile application using React Native, focusing on seamless user experience and **cross-platform compatibility**.
- Designed and **integrated APIs** to support real-time data processing and interaction with cloud-based services.
- Implemented secure user **authentication** to enhance data protection and ensure a reliable login experience.

Skills

Technical C, Java, Javascript, Dart, C++, Typescript	Frontend Development React.js, React Native, Flutter, NEXT.js	Backend Development Node.js, Express.js, Nest.js, Socket.IO, Firebase, gRPC
Database MongoDB, SQL, SQLite, PostgreSQL, Redis	DevOps/ Deployment Git, Github, Docker, Nginx, AWS, Oracle Cloud	Architecture and Design Microservices, Kafka, rabbitMQ

Education

B. Tech, Computer Science and Engineering Nov 2021 – Jul 2025
7.95 CGPA

Achievements

- Finalist at an offline 36-hour PAN India Hackathon arranged by HackHive, DAVV, Indore. 
- Won state Level Technical Event ORCHATHON'23. 