

Omkar Mahesh

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SUMMARY

Computer Science student specializing in Cloud Computing & Automation with expertise in full-stack development using MERN stack and Next.js. Experienced in deploying scalable cloud-native applications and proficient in AWS Cloud Services. Proficient in DevOps automation with Docker, CI/CD, Terraform, and Ansible. Strong foundation in Data Structures & Algorithms, OOPS and Core Subjects. Demonstrated experience building AI-powered applications with modern web technologies.

EDUCATION

Vellore Institute of Technology, Bhopal

Bachelor of Technology in Computer Science (Cloud Computing & Automation) – CGPA: 8.54

Bhopal, Madhya Pradesh

Sept 2023 – Ongoing

TECHNICAL SKILLS

Languages: Java, Python, JavaScript, TypeScript, SQL, HTML, CSS

Frontend & Backend: React.js, Next.js, Tailwind CSS, Node.js, Express.js, MongoDB, MySQL, REST APIs, Microservices

Cloud: AWS (EC2, S3, RDS, CloudFront, Load Balancers, VPC, CloudWatch), Google Cloud, Firebase

DevOps: Linux, Docker, CI/CD, Kubernetes, Jenkins, Terraform, Ansible, Grafana, Prometheus

Developer & AI Tools: Git, GitHub, Postman, VSCode, Firebase, Figma, Framer, APIs, LLMs, GenAI

DSA & Foundations: Data Structures, Problem Solving, Algorithmic Analysis, OOPS, OS, CN, DBMS

PROJECTS

Place Prep – AI-Powered Voice Interview Platform

Full-Stack Web Application

Next.js, React.js, OpenAI API, Deepgram API, Firebase

- Built a full-stack AI interview platform using Next.js and React.js to simulate real-world voice-based interviews.
- Integrated speech-to-text using Deepgram API with high transcription accuracy, reducing manual evaluation effort by 70%.
- Implemented secure backend logic and authentication using Firebase, enabling controlled access and session management.
- Deployed using serverless architecture on Firebase, ensuring scalability, low latency, and reliable performance during concurrent usage.

NewsVITaa – Centralized College Event Management System

Full-Stack Web Application

React.js, Firebase, Cloud Firestore, Firebase Auth, REST APIs

- Developed a full-stack event management platform using React.js and Firebase for centralized college event discovery.
- Utilized Cloud Firestore for live data synchronization and Firebase Authentication for secure user access.
- Boosted student engagement by 50% based on campus feedback through real-time updates and notifications.
- Streamlined event management workflows, reducing administrative effort by 30% via automated updates and role-based access.

Serverless Music Player

Cloud & DevOps Project

AWS S3, AWS CloudFront, HTML, CSS, JavaScript

- Built a serverless static music streaming application using AWS S3 for storage and CloudFront for global content delivery.
- Configured CloudFront with HTTPS (SSL/TLS) and caching policies to ensure secure and low-latency data transmission.
- Improved asset load times by 40% during testing through CDN-based caching and optimized delivery paths.
- Optimized storage and delivery costs by applying S3 lifecycle policies and efficient object caching strategies.

CERTIFICATIONS

- IBM: DevOps, Agile & Design
- IBM: DevOps Fundamentals
- Microsoft: Azure Data Fundamentals DP900.
- Google: Gen AI Academy
- Postman: API Fundamentals
- Tata: Data Visualization

ACHIEVEMENTS

- Completed 100-day LeetCode DSA Coding Challenge in Java.
- Secured 1st Rank in the Google Gen AI Exchange Program 2025.
- Contributed to multiple open-source projects during GSSOC 2024 and Hacktoberfest.