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 in Java and Python. Demonstrated experience building AI-powered applications with modern web technologies.

EDUCATION

VIT Bhopal University   Bhopal, Madhya Pradesh
Bachelor of Technology in Computer Science (Cloud Computing & Automation) (CGPA - 8.38)   *Sept 2023 – Ongoing*

TECHNICAL SKILLS

Languages: Java, Python, C++, 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, Kubernetes, Jenkins, Terraform, Ansible, Grafana, Prometheus

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

DSA: Proficient in Java, Python, Advanced Problem Solving, Algorithmic Analysis, OOPS

PROJECTS

Place Prep - AI-Powered Voice Interview Platform   April 2025 – June 2025
Full-Stack AI Application   *Next.js, OpenAI API, Deepgram API, Firebase*
- Built a full-stack AI simulator using Next.js, OpenAI API, and Deepgram API for realistic voice interviews, generating dynamic questions and providing instant feedback to 500+ simulated users.
- Integrated speech-to-text with 95% accuracy, reducing manual transcription time by 70% and enabling high-accuracy performance analysis.
- Deployed on Firebase for serverless scalability, handling up to 100 concurrent sessions with 99.9% uptime.

Serverless Music Player   Jan 2025 – Mar 2025
Cloud Project   *AWS S3, CloudFront, JavaScript, HTML/CSS*
- Implemented a serverless music streaming app using AWS S3 and CloudFront, delivering secure content to 500+ simulated streams with HTML/CSS/JavaScript frontend.
- Leveraged CloudFront's SSL/TLS for data transmission, improving load times by 40% and ensuring zero downtime during testing.
- Optimized storage costs by 25% through efficient file management in S3 with lifecycle policies and intelligent caching.

NewsVITaa - Centralized College Event Management System   Aug 2024 – Dec 2024
Full-Stack Web Application   *React.js, Firebase, Cloud Firestore, Firebase Auth*
- Developed a responsive React.js UI with Firebase backend, enabling real-time event discovery and registration for 2,000+ students.
- Utilized Cloud Firestore for live data sync and Firebase Authentication for secure user access, boosting engagement by 50% based on campus feedback surveys.
- Streamlined event management, reducing administrative workload by 30% through automated notifications and real-time updates.

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.