LOKESH MEHAR

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Education

Indian Institute of Information Technology and Management, Gwalior   Expected July 2027
Integrated Bachelor's and Master's of Technology in Information Technology   *CGPA: 8.00*

Model Higher Secondary School, Bhopal   **July 2022**
All India Senior School Certificate Examination   *Percentage: 92.6%*

Experience

Developer – Research Implementation   Dec 2024 – Apr 2025
Dermadetect | Homepage | ML-Based Diagnostic Platform

- Built a responsive, interactive **React** UI with optimized FormData image uploads, cutting request latency by **35%**.
- Designed scalable **Python/Flask** backend serving web and Kotlin apps, securely routing images to ML pipelines and handling **500+** concurrent requests at **99.9%** uptime.
- Integrated two ML models per request for real-time predictions (**<200 ms**), cutting diagnostic time by **60%** with **99%** uptime.

Systems Engineer   May 2024 – Present
DEMon | Technical Implementation | Decentralized Cloud-Edge Gossip Network

- Simulated a **300+** node gossip network on **Docker/Kubernetes**, sustaining **99.9%** uptime under **90%** churn with **40%** faster setup.
- Developed a data-prioritization **algorithm** that cut bandwidth usage by **60%** and improved anomaly detection speed by **60%** across **500+** data points/sec, storing experiment metrics in **SQLite** for detailed analysis.
- Designed scalable **Flask APIs** that handled **500+** concurrent requests, with a **50 ms avg** response time for real-time node coordination and metric exchange, and visualized results using **Matplotlib** for data-driven insights.

Technical Skills

Languages: C++, JavaScript, TypeScript, Python, Java, C, SQL, Bash
Frameworks and Libraries: React.js, Next.js, Redux, HTML5, CSS3, Tailwind CSS, Bootstrap, Node.js, Express.js, Flask, GraphQL, Axios, Jest, Mocha
Databases: PostgreSQL, MySQL, SQL Server, MongoDB, Redis, Prisma, Mongoose, pgAdmin
Tools & Platforms: Docker, Kubernetes, Git, GitHub, GitLab, VS Code, Linux, NGINX, AWS, GCP, Figma, npm, Yarn, Webpack, ESLint, Prettier

Projects

StreamLy - Real-Time Communications | *Node.js, TypeScript, Mediasoup, Kafka, Redis, AWS*   **Aug 2024**

- Developed a scalable real-time platform in **Node**.js & **TypeScript** with **Mediasoup (C++ core)** for one-on-one and group video/audio calls and messaging, built to scale efficiently with event-driven architecture.
- Built a responsive front-end with **Next.js, React**, **ShadCN**, and **Tailwind CSS**, delivering seamless, accessible experiences across devices with server-side rendering and dynamic routing.
- Designed a robust backend with **Kafka** for event-driven messaging, **Redis** for fast session management, **PostgreSQL + Prisma** for structured data, and **AWS S3 f**or media storage, achieving **99.9%** uptime under high load.
- Implemented secure JWT-based authentication and containerized deployment with **Docker**, using **Postman** for API testing and ESLint/ Prettier for production-grade, maintainable code.

OctoWrap - Personalized Mobile Cover Designer | *React, Next.js, Prisma, Clerk, Stripe, Sharp*   **Jan 2024**

- Built a highly interactive product customizer in **React** and **Next.js**, reducing page load times by **35%** with SSR and client-side optimizations for a seamless, responsive UX.
- Integrated **Clerk** for end-to-end authentication (signup, login, logout on the frontend and protecting all API routes) and **Stripe** for secure checkout, using webhooks to fully automate order fulfillment with a **99.9% successful payment rate**.
- Engineered a robust image-processing pipeline with **Sharp** and **UploadThing**, achieving **100%** successful image uploads and **40%** faster preview rendering.
- Designed the UI in **Figma**, enhanced interactivity with **Framer Motion** and **Radix UI**, and debugged performance using **React DevTools** and Next.js profiling to improve responsiveness and accessibility.

Achievements

- Top-performer in Flipkart Grid 6.0 Level 1 (Software Development), showcasing strong algorithmic and coding skills.
- Achieved **1850+** LeetCode rating with **1000+** problems solved, earning the **Knight** badge.
- Mentored **400+** students across Bhopal and IIIT Gwalior in web development and core CS subjects (**OS, DBMS, OOP**).
- Contributed **650+** commits on GitHub over the past year, leveraging GitHub Actions for **CI/CD** and teamwork.