HARSH HANDE

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EDUCATION

MIT ADT University, Loni Kalbhor   Pune, Maharashtra
Bachelors in Technology | Branch: Computer Science and Engineering | CGPA: 8.19   *2020 - 2024*

TECHNICAL SKILLS

Languages : C, C++, HTML, CSS, JavaScript, Golang, TypeScript, Python
Web Technologies and Frameworks: Reactjs, Nodejs, Expressjs, TailwindCSS, WebRTC, Web Sockets, Prisma
Deployment and Version Control: Git and Github
Databases: MySQL, MonogoDB, PostgreSQL

EXPERIENCE

Web Developer Intern   March 2024 - May 2024
Innovation Hacks AI
- Developed and maintained a robust **Golang backend**, handling over large database entries and ensuring query response times under 100ms for seamless data retrieval.
- Crafted advanced data visualization features using **React.js**, creating interactive charts and graphs that enhanced user engagement by 30%.
- Utilized **Tailwind CSS** for responsive and efficient styling

KEY PROJECTS

P2P Video Calling App | *WebRTC, Web Sockets*
- Built a video calling app leveraging WebRTC and WebSocket technologies, enabling seamless peer-to-peer (only 2 users) video streaming, powered by an ExpressJS and NodeJS backend.
- Applied ReactJS optimized with Hooks and the Web API (socket.io), achieving a 40% reduction in unnecessary component re-renders, resulting in a 30% improvement in load times.
- Leveraged WebSocket technology (specifically Socket.IO) to architect and implement a virtual server, enabling seamless real-time connectivity between two users.

PayTM Clone Project | *MERN Stack*
- Engineered a Paytm clone leveraging a full-stack solution with ReactJS for the frontend, ExpressJS and NodeJS for the backend, and MongoDB for data management, focusing on backend calls and functionality.
- Developed backend infrastructure utilizing Express.js and integrating multiple APIs, which resulted in a 40% reduction in response time.
- Successfully implemented JWT-based authentication, enhancing route security across the platform, which led to a 40% reduction in unauthorized access.

3-Tier Architecture using AWS | *Cloud Computing (Amazon Web Services)*
- Designed a scalable and secure architecture with VPC, subnets, auto-scaling, and a bastion host for multi-tier application deployment.
- Setted data storage across multiple Availability Zones, ensuring 99.99% data availability and resilience against zone failures.

ADDITIONAL COURSES/TRAININGS UNDERTAKEN

AWS Cloud Foundations   March 2023 - April 2023
Amazon Web Services Training and Certification

ACHIEVEMENTS

- 24th rank out of 400 teams in **IIT Madars Embedded Security CTF Competiton**

- **Gold Medalist in KickBoxing** at National Federation Level Championship (2018)