SANSKAR SURYAWANSHI

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Education

Bachelor of Technology in Computer Science and Engineering (CGPA: 7.55)   Jan 2021 - May 2025
Deogiri Institute of Engineering & Management Studies, Chhatrapati Sambhajinagar

Higher Secondary Certificate (HSC) (Percentage: 92.33%)   Jun 2020 - Mar 2021
Shiv Chhatrapati College, Chhatrapati Sambhajinagar

Experience

MERN Software Development Intern - iNeuron Intelligence Pvt. Ltd.   Jan 2025 - May 2025
- Contributed to architecting a scalable E-commerce application backend using modular components, successfully handling 10,000+ concurrent user requests during stress testing.
- Collaborated with cross-functional teams to refine UI/UX workflows, resulting in a 25% increase in user retention through optimized navigation paths.
- Eliminated critical API latency bottlenecks by optimizing database queries, improving overall application response time by 15%.

Web Development Intern - IIT Bombay x Intrainz Innovation Pvt. Ltd.   Feb 2023 - Mar 2023
- Collaborated with backend teams to integrate RESTful APIs, reducing data retrieval time by 30% through optimized endpoints.
- Developed highly responsive web interfaces that enhanced cross-platform compatibility, leading to a 25% improvement in mobile user engagement.
- Implemented rigorous testing and debugging protocols, reducing post-deployment bugs by 40% and ensuring code reliability.

Projects

Namida Sync (Flutter, Firebase, Google Drive API) - GitHub Repository
- Developed an open-source backup solution for Namida Music Player, enabling seamless local music library synchronization across Android and Windows via Google Drive API and LAN.
- Achieved local data transfer speeds of 25 MB/s by optimizing the LAN transfer protocol, significantly outperforming cloud-only sync method.
- Adopted by 500+ active users and prominently featured for 5000+ users via an in-app button in Namida Music Player.

Data Structures and Algorithms with Augmented Reality (Flutter, Google ARCore) - Demo
- Developed an immersive AR experience to visualize complex data structures and algorithms in real-time, bridging the gap between theoretical concepts and visual understanding.
- Optimized AR rendering pipelines to maintain a steady 60 FPS on mobile devices, ensuring a seamless user experience without battery drain and excessive hardware resource consumption.
- Designed interactive learning modules that improved student engagement with difficult concepts up to 200% compared to traditional methods based on user feedback.

Moctale Plus (React, TypeScript, IndexedDB) - [GitHub Repository](#), [Official Website](#), [Social Page](#)

- Developed a feature-rich chrome extension designed to supercharge user experience on [moctale.in](#) with 30+ features and is now being used by 300+ users.
- Achieved 100x faster UI injection speed (20 to 0.2 seconds) by optimizing DOM manipulation with Mutation Observers, reducing memory overhead for a collection of 600+ titles compared to standard React mounting.
- Deployed a robust cloud sync and restore mechanism via the Google Drive API to seamlessly synchronize user preferences, watch history and episode tracking data, ensuring zero data loss during browser migrations.

Skills

- **Programming Languages:**
  - C, C++, Java, Python, JavaScript, TypeScript, Dart, C#, Rust, Go, SQL, Bash.
- **Frontend Development:**
  - HTML5, CSS3, React.js, Next.js, Redux Toolkit, Tailwind CSS, Vite, Webpack, Framer Motion, UI Libraries (Material UI, Shadcn UI).
- **Mobile Development:**
  - Flutter, React Native.
- **Backend & Distributed Systems:**
  - Node.js, Express.js, NestJS, RESTful APIs, WebSockets, Redis.
  - Familiar with Microservices, GraphQL, gRPC, Apache Kafka, Spring Boot.
- **Databases & Storage:**
  - PostgreSQL, MongoDB, MySQL, Firebase, Oracle, SQLite, IndexedDB.
- **DevOps & Cloud Infrastructure:**
  - Docker, AWS (EC2, S3, Lambda), GitHub Actions (CI/CD), Nginx, Linux Administration.
- **Tools & Architecture:**
  - Git, GitHub, Postman, VS Code, IntelliJ IDEA, Cursor IDE, Figma.
  - System Design & Architecture: OOP, SOLID Principles, Design Patterns, Agile/Scrum.
  - AI Tools: GPT-5, Gemini, Claude.