AARYAN MANTRI

Malad West, Mumbai

📱 9619143930 ✉ mantri.aaryan23@spit.ac.in in linkedin.com/in/aaryan-mantri ⌗ github.com/DecayDestructor
</> codeforces.com/profile/mantryan

Education

Sardar Patel Institute of Technology   Aug. 2023 – May 2027
Bachelor of Technology in Computer Science   *CGPA: 9.14*

Work Experience

Software Developer Intern   July 2025 – August 2025
SP-TBI (Sardar Patel Technology Business Incubator)   *Mumbai, India*

- Built a role-based **room booking module** for incubatees, supporting two workflows: direct paid bookings and admin-approved bookings for restricted rooms; used by **50+ incubatees**
- Developed a **ticketing system** for incubatees to raise issues or support requests, streamlining communication with the administration
- Refactored a **6000+ line legacy codebase** into a clean, modular structure of 1000 lines, significantly improving readability, maintainability, and scalability

Projects

Khalo | *Supabase, Gemini API, ExpressJS, NodeJS, React Native*   **April 2025**

- Implemented the **community feature** in **Khalo**, a street food discovery platform, enabling users to post, like, and filter food-related content based on location
- Engineered personalized stall recommendations by combining user **preferences** and **geospatial data** with Supabase and **PostGIS**; incorporated **fuzzy matching** to improve interest-based search results
- Integrated the **Gemini API** to automatically analyze user feedback and generate dynamic stall ratings using natural language summarization

ProScript | *ReactJS, NodeJS, ExpressJS, MongoDB, FastAPI, TensorFlow, GeminiAPI, OpenAI*   **April 2025**

- Built a smart Prescription Manager using a **rule-based system** to predict **side effects** and analyze **drug compatibility**, factoring in **allergies**, **pregnancy**, and precision medicine
- Designed a risk evaluation module to detect **critical drug interactions** and compatibility issues using a rule-based approach
- Integrated **Gemini API** for insights, used **OpenAI OCR** for parsing handwritten prescriptions, and added a hospital-wise feedback loop via **TensorFlow** to refine predictions

Code Red | *PostgreSQL, ExpressJS, NodeJS, ReactJS, Redux Toolkit, Redis*   **February 2025**

- Implemented a graph-based storyline game with each level having its own concept mini-game
- Optimized Real-Time Game State Management by using **Redis** as the primary database, reducing the average response time from **350ms** to **50ms**
- Integrated PostgreSQL as a **Persistent Data Store**, periodically syncing with Redis to ensure data integrity and efficient recovery

Technical Skills

Languages: Python, Java, C, C++, HTML/CSS, JavaScript, TypeScript
Developer Tools: VS Code, Git, GitHub, Eclipse, IntelliJ, PyCharm
Technologies/Frameworks: ReactJS, ExpressJS, NodeJS, Tailwind CSS, Bootstrap, Redux Toolkit, Django, NextJS, FastAPI, React Native
Databases: MongoDB, MySQL, PostgreSQL, Redis, Supabase

Achievements

Specialist (max. 1421)   **Present**
Codeforces

Winner of App Development   **April 2025**
College Level Hackathon   *CSI - SPIT*

Leadership / Extracurricular

Core Team - Training and Placement Office   **January 2025 – Present**
Statistics Head   *Sardar Patel Institute of Technology*

Students' Developer Club   **August 2024 – Present**
Technical Head   *Sardar Patel Institute of Technology*