

AARYAN MANTRI

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🐙 github.com/decay-destructor

Education

Sardar Patel Institute of Technology

Bachelor of Technology in Computer Science

Aug. 2023 – May 2027

CGPA : 9.14

Projects

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

April 2025

- Developed a smart Prescription Manager using a **rule-based approach** to predict potential **side effects** and perform **drug compatibility analysis**, considering factors like **allergies**, **pregnancy status**, and precision medicine.
- Implemented a system to evaluate **critical drug risks** based on various factors, with a rule-based approach to identify dangerous interactions and overall compatibility issues.
- Used **fuzzy search** to retrieve prior records with similar symptoms/diagnoses for the same patient, highlighting treatment outcomes, effectiveness, and side effects.
- Leveraged **Gemini API** for prescription insights, **OpenAI OCR** to parse handwritten prescriptions, and created a hospital-wise feedback loop with **TensorFlow** to refine predictions.

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

February 2025

- Created a Web-Hosted Game Interface for an event that conjured more than **100 teams of 2**, with each participant having their own client.
- Implemented a graph-based storyline 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.
- Used **Redux persist** to maintain different states across all levels, preventing state reset on refresh.

Code Vault | *MongoDB, ExpressJS, NodeJS, ReactJS, Redux Toolkit*

August 2024

- Developed a GitHub inspired code snippet manager to create, share and export segments of frequently used codes.
- Implemented **Version Control** to maintain history of any code snippet along with adding the functionality of restoring if required by the user.
- Provided the options to Like, Save, or Fork a searched snippet which was internally achieved using MongoDB Compound Indexing, reducing the search time by **96%**.

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

Databases: MongoDB, MySQL, PostgreSQL, Redis

Achievements

Pupil (max. 1382)

Present

Codeforces

Winner of App Development

April 2024

SE Hackathon

CSI - SPIT

Finalist of CSI - SPIT Hackathon

February 2025

National Level Hackathon

Sardar Patel Institute of Technology

Leadership / Extracurricular

Statistics Head

January 2025 - Present

Core Team - Training and Placement Office

Sardar Patel Institute of Technology

Students' Developer Club

August 2024 - Present

Technical Head

Sardar Patel Institute of Technology

Community of Coders

October 2023 - April 2024

Moderator

Sardar Patel Institute of Technology