Aaryan Mantri

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Education

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

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.
- Developed a **swipe-based matching system** that connects users with food stalls tailored to their current cravings and mood.
- 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.
- Applied **fuzzy search** to retrieve patient records with similar symptoms, highlighting treatment outcomes and side effects.
- 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.
- 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, React Native
Databases: MongoDB, MySQL, PostgreSQL, Redis, Supabase

Achievements

Specialist (max. 1421)   **Present**
Codeforces
Winner of App Development   **April 2025**
SE Hackathon   *CSI - SPIT*
Finalist of CSI - SPIT Hackathon   **February 2025**
National Level Hackathon   *Sardar Patel Institute of Technology*

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*