Harpalsinh Chudasama

Surat, Gujarat

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EDUCATION

Gandhinagar University, Ahmedabad **2019 − 2023**
*B.E. - Information and Technology - **CGPA - 7.79*** *Ahmedabad, Gujarat*

Focus Areas

- Frontend Development
- Python Development
- Web3
- UI/UX Design

TECHNICAL SKILLS

Languages: Python, JavaScript, SQL
Technologies/Frameworks: React.js, Node.js, Flask, REST APIs
Tools: Git, VS Code, Postman, Docker, Figma
Domain/Platforms: Web3, Blockchain, Solana, Google APIs

EXPERIENCE

SDE Intern at Vnurture Technologies | HTML/CSS, JS, Reactjs **July 2022 - October 2022**

- Developed a user-friendly question and answer platform with essential features.
- Implemented user authentication, search functionality, and a voting system for ranking answers.
- Handled database operations and developed a responsive front-end using HTML, CSS, and JavaScript.

Freelance Frontend Developer | React.js, JavaScript, REST APIs, Vite **June 2021 − Present**

- Developed modular, performant frontend apps using React.js, Vite, and React App with context-based state management and routing via React Router.
- Implemented responsive UIs, integrated third-party libraries, and consumed RESTful APIs to deliver dynamic client-side functionality.
- Built features like file previews and form submissions, coordinating closely with backend APIs for data-driven interactions.

Freelance Software Developer | Python, Flask, Node.js, RESTful APIs, SQL **June 2021 − Present**

- Built RESTful backend services using Flask and Node.js, focusing on secure data processing and robust API design for frontend integrations.
- Managed structured data with SQL and JSON, designing optimized schemas and handling query performance tuning.
- Automated workflows involving OCR, file system processing, and custom logic pipelines using Python scripting.

PROJECTS

Lumalife AI Assistant ⧉ | (Next.js, TypeScript, WebSocket, Tailwind CSS) **2025**

- Built a multi-stage dementia-care frontend with real-time audio chat using WebSocket, AudioWorklets, PCM16 streaming, and custom audio pipelines with voice activity detection and crossfade transitions.
- Integrated multilingual support (EN/DE), dynamic avatars, and three AI agents with role-specific flows.
- Implemented JWT auth, admin dashboard, and mobile-first UI with Tailwind and cross-browser audio fallbacks.

Malicious Validator Detector ⧉ | (Python, Flask, Solana RPC, REST API) **2025**

- Built a Flask-based validator monitoring tool that detects double-signing, censorship, and validator downtime.
- Designed a dynamic risk scoring engine with REST API and simple templated UI for quick validator inspection.
- Used Python's async features and retry logic to improve data polling reliability; deployed modular endpoints for analysis.

Scanned PDF Data Extraction Engine ⧉ | (Python, SQL, JSON) **2024**

- Developed a Python engine for extracting data from scanned PDFs, handling challenges like zoom, angle and variations.
- Utilized JSON mappings for detecting data fields sand saved extracted data into an SQL database.
- Implemented API endpoints for uploading PDFs and retrieving extracted data, secure and efficient data handling.