

DHRITI VAZ

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OBJECTIVE

Computer Science student with experience in full-stack web development, iOS and mobile apps, applied AI/ML research, and security engineering. I build clean, user-centric products backed by well-structured APIs and enjoy working across the stack — solo or as part of a team.

EDUCATION

Vellore Institute of Technology (VIT), Chennai	2024 – Present
B.Tech in Computer Science Engineering	CGPA: 8.13/10

TECHNICAL SKILLS

Languages	C, C++, Java, Python, JavaScript, TypeScript, Dart, Swift
Web & Mobile	React.js, Next.js, Node.js, Express.js, Flask, FastAPI, Flutter, SwiftUI, HTML, CSS
Databases	PostgreSQL, SQLAlchemy, Prisma ORM, Supabase, MongoDB, SwiftData
AI/ML	spaCy (NER), RoBERTa-NLI, TF-IDF, scikit-learn, LLM integration (Anthropic, OpenRouter)
Tools	Git, Docker, Figma, Streamlit, Electron, Render, Vercel

EXPERIENCE

Full Stack Developer Intern	June 2026 – Present
<i>Ambian Strategy, Chennai</i>	

- Building ProposalOS, an AI-powered RFP matching and response platform, using Next.js, TypeScript, and PostgreSQL with LLM integration for tender scoring and analysis.
- Developing a web scraping pipeline and client-facing dashboard features as part of an ongoing product build.

Summer Research Intern (SRIP 2026)	May 2026 – Present
<i>VIT Chennai, SCOPE Dept. — under Dr. Sandhya P</i> GitHub	

- Designed a 3-stage bio-inspired cascade pipeline for post-hoc LLM hallucination detection: GPT-2 confidence scoring, NER-guided Wikidata/Wikipedia evidence retrieval, and RoBERTa-large-MNLI contradiction detection.
- Achieved $1.99\times$ latency reduction over a flat pipeline with 80.5% early-exit rate; evaluated on 200 TruthfulQA samples using LLaMA-2-7B with a 30.5% baseline hallucination rate.
- Built a two-layer Ethereum-compatible smart contract audit stack (AuditLog.sol + GovernanceDecision.sol) with 100% audit completeness across all evaluated runs.

Billing System Developer Intern	May 2025 – Jul 2025
<i>GeoPacific Solutions, Chennai</i> GitHub	

- Contributed to a centralised billing and payment tracking system supporting role-based workflows across admin, franchise, and cashier roles using Node.js and PostgreSQL.
- Designed JSONB invoice schemas for dynamic multi-product transactions and built RESTful APIs for franchise-level inventory tracking and sales reporting.

HACKATHONS

Landroid — AI Land Monitoring System

[GitHub](#)

Flutter, FastAPI, Python, Supabase, PostgreSQL, PostGIS, GeoTIFF, NDVI

A Flutter + FastAPI application for AI-powered land health monitoring that processes GeoTIFF orthomosaic drone imagery to generate NDVI-based plant health maps and insights. Supports consultant and landowner roles with parcel management, and uses Supabase (PostgreSQL + PostGIS) for spatial data, documents, and user management.

FinSightAI — Persona-Aware Personal Finance Platform

[GitHub](#)

React 18, Vite, JavaScript, TypeScript, Supabase, PostgreSQL, OpenRouter, CSS

A full-stack personal finance platform tailored for Indian users across three personas (student, salaried, business owner), with onboarding that seeds budgets to profile. Features a financial health score, category budgets, stock portfolio with live NSE/BSE quotes, mutual fund tracker via AMFI, savings goals, and spending challenge tracking. Includes Kash, a context-aware AI copilot that reads the user's real transaction data before every reply and supports natural-language expense logging.

PROJECTS

Student Dashboard & Management System

[GitHub](#)

React.js, TypeScript, Node.js, Express.js, PostgreSQL, Prisma ORM, Tailwind CSS

Full-stack academic dashboard unifying VTOP and LMS data — attendance tracking, CGPA/GPA simulator, assignment sync, markdown notes, task manager, file module, and timetable. JWT + Google OAuth.

Expense Tracker

[Live](#) — [GitHub](#)

Python, Flask, PostgreSQL, SQLAlchemy, JavaScript, Chart.js, HTML/CSS, Render

Deployed multi-user expense tracker with natural language input, a 4-tab Chart.js dashboard, and a smart savings planner that recommends category-level cuts based on spending patterns.

Course & Module Recognition Platform

[GitHub](#)

Python, scikit-learn, TF-IDF, spaCy, Streamlit, SQLite, matplotlib, plotly

NLP pipeline classifying 1,300+ academic documents across 16 courses using TF-IDF + four ML classifiers. Achieved $\geq 93\%$ cross-validated accuracy with a live Streamlit dashboard and 3D SVD document scatter.

Krypt — Secure Password Manager

[GitHub](#)

Python, Flask, PostgreSQL, AES-256-GCM, Argon2id, JWT, TOTP, pytest, Docker

Zero-knowledge self-hosted password manager with AES-256-GCM encryption, Argon2id key derivation, JWT refresh rotation, TOTP 2FA, and account lockout. 93% test coverage across 96 tests.

Dinero — Native iOS Expense Tracker

[GitHub](#)

Swift, SwiftUI, SwiftData, Swift Charts, Supabase Auth, Keychain, Anthropic/OpenAI/OpenRouter

Native iOS finance app with an AI-first home screen for natural language expense logging, per-category budgets, multi-account tracking, and Swift Charts reports. LLM keys stored in Keychain; offline parser works without any key.

IRIS — Multi-Provider AI Command Centre

[GitHub](#)

Electron, React, Vite, Next.js 14, TypeScript, SQLite, Supabase, Zustand, Tailwind CSS

Dual-flavour AI chat platform — a fully local desktop app (Electron + SQLite) and a cloud web app (Next.js 14 + Supabase). Organises chats into rooms with per-room memory; supports Anthropic, Groq, OpenRouter, and Ollama with automatic rate-limit fallback.

INTERESTS

Full-Stack Development, iOS & Mobile Development, Applied AI/ML Research, Security Engineering, Astrophysics & Space Tech