

Vedaang Sharma

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<https://github.com/gtathelegend>

Summary

Full Stack Developer specializing in AI-driven and distributed systems, with hands-on experience building scalable web applications, multi-agent LLM pipelines, and blockchain-based platforms. Proficient in MERN, Python, and cloud-native architectures, with strong expertise in real-time systems, API design, and database engineering. Experienced in developing intelligent applications using LLMs, computer vision, and decentralized technologies. Focused on designing production-ready systems with clean architecture, performance optimization, and practical real-world impact.

Education

Vivekananda Global University, Jaipur, BCA in Cloud Computing and Full Stack 2024 - 2027

- GPA: 9.8/10 (Vivekananda Global University)
- **Coursework:**
 - Core CS:* Data Structures, DBMS, OS, Computer Architecture
 - Programming:* Java, Python
 - Development:* Web Dev (HTML/CSS/JS), Linux, OOP
 - Other:* AI Basics, Software Engineering

Rawat Public School, Jaipur, 12th Grade (CBSE) 2023 - 2024

- Percentage : 80 (Rawat Public School)
- **Coursework:** Physics, Chemistry, Mathematics, Informatics Practices (Python, SQL, Data Handling)

Experience

Full Stack Development Intern - On-Site, PetsGo & PetsDoor Pvt. Ltd. Nov 2025 – Jan 2026

- Developed and enhanced full-stack web application features for the PetsGO pet-care platform.
- Collaborated with tech and design teams on front-end, back-end, API integration, and database tasks.
- Improved user interface components and participated in code reviews, testing, and deployment.
- Gained hands-on experience across the full web development life cycle under guidance from senior mentors.

Projects

Aegis Care – Decentralized Healthcare Data Management

- Built a blockchain-based healthcare platform on Algorand with 9 smart contracts implementing RBAC, medical records, prescriptions, and consent-driven access control.
- Designed hybrid IPFS + blockchain storage, securing encrypted medical records off-chain (CID) while enforcing access control on-chain.
- Implemented ARC-28 compliant audit logging to track consent, data access, and erasure events across system actors.
- Developed a TypeScript deployment orchestrator with cross-contract transactions and multi-network support.
- **GitHub:** <https://github.com/gtathelegend/Aegis-Care>
- **Live Demo:** <https://aegis-care.vedaangsharma.dev>
- Tech: Algorand, Python (Puya), TEAL, IPFS, TypeScript, Node.js, AlgoKit

PostureSense – AI Posture Detection System

- Developed a real-time posture analysis system using MediaPipe and OpenCV with 33 landmark tracking.
- Implemented pose classification using trigonometric joint angle calculations.
- Built a Flask backend with MJPEG video streaming and SSE for real-time feedback.

- Designed authentication with Flask-Login and bcrypt, storing session analytics in PostgreSQL (Supabase).
- **GitHub:** <https://github.com/gtathelegend/Posture-Sense>
- **Live Demo:** <https://posture-sense.vedaangsharma.dev/>
- Tech: Python, Flask, MediaPipe, OpenCV, Supabase, PostgreSQL

KIDZ-GPT – AI Learning Companion for Kids

- Built a multi-agent AI tutoring system using local LLMs (Ollama 120B).
- Enabled multilingual voice interaction using Whisper with real-time language detection.
- Developed interactive learning using 3D animated characters with Three.js.
- Integrated Redis caching, AI quizzes, and visual learning components.
- **GitHub:** <https://github.com/gtathelegend/KIDZ-GPT>
- Tech: FastAPI, React, TypeScript, Three.js, Whisper, Ollama, Redis

Campus Swap – Student Marketplace App

- Built a full-stack Flutter marketplace app enabling students to buy and sell second-hand goods within campus.
- Implemented OTP-based authentication with student ID verification and multi-image product listings.
- Developed a real-time chat system using Supabase Realtime (WebSockets) with push notifications.
- Architected using Provider state management and service-layer pattern with Supabase backend.
- **GitHub:** <https://github.com/gtathelegend/Campus-Swap>
- **Live Demo:** <https://campus-swap.vedaangsharma.dev/>
- Tech: Flutter, Supabase, PostgreSQL, WebSockets

Certifications

Engineer AI Agents with Agent Development Kit (ADK) - Google Cloud April 2026

- Built intelligent AI agents with workflow orchestration, API/tool integration, and context-aware decision-making for real-world automation tasks.
- Designed agent pipelines capable of handling dynamic inputs and executing multi-step reasoning processes.
- **View Certification**

Introduction to LangChain - Python - LangChain Academy April 2026

- Developed LLM-powered applications using tools, memory, and multimodal inputs with LangChain.
- Implemented multi-agent workflows and explored production concepts like middleware and human-in-the-loop (HITL).
- Built projects including a Personal Chef, Wedding Planner, and Email Assistant.
- **View Certification**

Full Stack Developer – MERN Stack Master’s Program - Simplilearn February 2026

- Developed end-to-end web applications using MongoDB, Express.js, React.js, and Node.js, implementing responsive UI, RESTful APIs, authentication, and scalable backend services.
- Applied cloud deployment, DevOps practices, Git-based collaboration, testing, Agile workflows, and integrated AI features using OpenAI APIs across industry projects.
- **View Certification**

DevOps Foundations: Continuous Delivery/Continuous Integration - LinkedIn Learning February 2026

- Implemented CI/CD pipelines to automate build, test, and deployment workflows, improving release speed and reliability.
- Gained hands-on experience with version control, automated testing, deployment strategies, and DevOps collaboration practices.
- **View Certification**

Network Security - Cisco Learning and Certifications (Coursera)

January 2026

- Learned network security fundamentals including threat detection, risk mitigation, encryption, firewalls, authentication, and secure architecture design.
- Applied security best practices for protecting enterprise systems, managing vulnerabilities, and implementing access control and incident response strategies.

• View Certification

MERN Essential Training - LinkedIn Learning

September 2025

- Learned fundamentals of the MERN stack (MongoDB, Express.js, React.js, Node.js) for building full stack, data-driven web applications.
- Developed skills in RESTful API integration, backend services, frontend components, state management, and end-to-end application architecture.

• View Certification

EXIN Cloud Computing Foundation - EXIN

December 2025

- Gained foundational knowledge of cloud computing concepts including IaaS, PaaS, SaaS, virtualization, scalability, and distributed systems architecture.
- Learned cloud security, governance, cost optimization, deployment models (public/private/hybrid), and best practices for designing reliable cloud-native solutions.

• View Certification

Publications

Posture Sense: AI-Powered Smart Mirror for Real-Time Exercise Feedback and Posture Correction

December 2025

Social Science Research Network (IO: Productivity, Innovation & Technology e Journal Vol 17, Issue 220, December 17, 2025)

Technologies

Languages: Python, JavaScript, TypeScript, Dart, SQL

Frontend: React, Flutter, Tailwind CSS, Bootstrap

Backend & APIs: Node.js, Express.js, FastAPI, Flask, REST API Design

Databases & Storage: PostgreSQL, MongoDB, Redis, DynamoDB, IPFS

Cloud & DevOps: AWS, Azure, Docker, Kubernetes, CI/CD Pipelines, Git

AI & Systems: LLM Integration (OpenAI, Ollama), Multi-Agent Systems, Computer Vision (MediaPipe, OpenCV), System Design