

VEDANT TRIPATHI

Delhi, India | kingovedant@gmail.com | [linkedin.com/in/vedant-tripathi-28a17321a](https://www.linkedin.com/in/vedant-tripathi-28a17321a) | github.com/Vedantrip

B.Tech CSE student (2027) with backend engineering experience and a strong foundation in Python, APIs, and distributed systems. Passionate about building production-grade AI agent systems and agentic RAG pipelines.

TECHNICAL SKILLS

Languages: Python (Intermediate), JavaScript, TypeScript, Kotlin, HTML/CSS

Frameworks & Libraries: FastAPI, React.js, Node.js, Socket.io, Next.js

AI / ML Tools: OpenAI API, LangChain (learning), HuggingFace (learning)

Infrastructure & Tools: Git, Docker, REST APIs, PostgreSQL, Redis, Microsoft Azure

WORK EXPERIENCE

Chainfly | *Backend Engineering Intern*

Jun 2025 – Aug 25

- Designed and implemented backend services for web applications using Python and REST APIs.
- Optimized database performance and ensured system scalability through query tuning and caching strategies.
- Developed and maintained server-side logic; collaborated with the engineering team via structured code reviews.

IEEE Student Chapter, MUJ | *Head of Events*

Jul 2024 – Apr 2025

- Led planning and execution of technical workshops, seminars, and hackathons for 500+ student community members.
- Managed end-to-end event logistics including scheduling, promotions, and resource allocation.

TEDxManipalUniversityJaipur | *Operations Core Committee*

Oct 2024 – Jan 2025

- Played a key role in the operational framework for the annual TEDx conference, coordinating on-ground activities.

IAESTE India LC MUJ | *Incoming Coordinator*

Jan 2024 – Sep 2024

- Managed reception and university integration of incoming international interns, coordinating with departments.

PROJECTS

Real-Time Collaborative Whiteboard

Node.js, Socket.io, HTML/CSS

- Built a high-performance infinite-canvas collaborative whiteboard with real-time multi-user sync using WebSockets.
- Engineered low-latency event broadcasting to handle concurrent users with minimal lag.

Distributed Systems Stress Simulator

JavaScript, Systems Design

- Built an interactive simulator modelling traffic distribution, queue buildup, caching impact, and horizontal scaling using real-world performance formulas.
- Demonstrates strong understanding of distributed systems concepts directly applicable to AI agent infrastructure.

SMS Finance Tracker

Kotlin, Android, NLP

- Developed an Android app for automatic SMS-based transaction extraction, categorization, subscription detection, and savings forecasting.
- Implemented text parsing pipeline to extract structured financial data from unstructured SMS messages.

EDUCATION

B.Tech in Computer Science & Communication

Jan 2023 – Jan 2027

Manipal University Jaipur, Rajasthan

Senior School Certificate (CBSE) — PCM

2023

Tagore International School, Vasant Vihar, Delhi

CERTIFICATIONS

Google AI Essentials | Front End Web Development with React JS & JavaScript