

ANSHUM SINGLA

Mansa, Punjab

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Education

Thapar Institute of Engineering and Technology

B.E. Computer Engineering, CGPA 8.14/10

Aug, 2023

Patiala, Punjab

Technical Skills

Languages: C, C++, Python, JavaScript, Dart

Frontend: React, Flutter, HTML, CSS, Tailwind

Backend: Node.js, FastAPI, Spring Boot, REST APIs

Databases: PostgreSQL, MongoDB

Cloud & DevOps: AWS EC2, Git, GitHub

Concepts: Data Structures & Algorithms, OOP, Machine Learning Basics

Experience

Center of Excellence in Data Science and AI, TIET Patiala

Student Intern — App & Web Development

Jun, 2025

Patiala, Punjab

- Engineered a full-stack mental health chatbot using Flutter, React, and Node.js supporting 50+ test users.
- Enhanced user engagement by designing a gamified space-themed UI with mood tracking and mini-games (+20% retention).
- Contributed across Agile sprints, delivering 10+ features through collaborative planning and peer reviews.

Postgraduate Institute of Medical Education and Research (PGIMER)

App Developer Intern

Jan, 2025

Patiala, Punjab

- Delivered a production-grade diabetes management app using Flutter, Spring Boot, and PostgreSQL for real users.
- Architected and led migration to a React Native and Node.js (Strapi) stack, improving scalability by 60%.
- Deployed a RAG-based medical chatbot on AWS EC2, reducing manual query resolution by 40%.
- Automated reminders and engineered secure REST APIs, reducing missed data entries by 25% and improving interoperability by 30%.

Projects


KONTA - Context-Aware Browsing Extension | *TypeScript, React, Plasmo, Transformers.js, Tailwind CSS* **Jan, 2026**

- Built a Chrome extension for personal knowledge management that captures browsing sessions and clusters related webpages using a session detection and project inference pipeline.
- Implemented multi-layer retrieval combining keyword search, semantic embeddings, and ML-based ranking for context-aware discovery of past browsing resources.
- Developed an interactive knowledge graph interface using Louvain Algorithm to visualize relationships between webpages and projects for intuitive exploration of saved knowledge.

Cross-Platform Music Streaming App | *Flutter, FastAPI*

Oct, 2025

- Architected a Flutter-based music streaming app with real-time playback, playlists, and JWT authentication.
- Structured the app using MVVM and Riverpod, reducing state-related bugs by 30%.
- Integrated a FastAPI backend with PostgreSQL and Cloudinary to support 100+ media assets.
- Optimized background playback and caching, lowering playback latency by 20%.

Smart Reminder Platform | *Full-Stack (React, FastAPI)* 

Dec, 2025

- Built a full-stack reminder platform integrating Gmail and Google Calendar APIs for automated deadline extraction.
- Designed low-latency REST APIs handling 500+ reminders with filtering, deduplication, and sync support.
- Implemented OAuth authentication and secure token flows, reducing authorization failures by 25%.

Leadership & Achievements

SAMSUNG Prism Web Agent Hackathon

Winner

Mar, 2026

Patiala, India

Israeli-India Hackathon

Winner 3rd Position

Aug, 2025

International

OWASP (Open Worldwide Application Security Project)

Joint Secretary

Sep, 2025

Thapar Institute of Engineering and Technology