

GURLEEN KAUR

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EDUCATION

Thapar Institute of Engineering & Technology, Patiala Aug 2023 - Present
B.E. Electronics & Computer Engineering | CGPA: 8.74/10

TECHNICAL SKILLS

Languages: C++, Python, C, JavaScript, TypeScript

Frontend: React.js, Next.js, Streamlit, Gradio

Backend & APIs: Node.js, NestJS, FastAPI, REST APIs, Pydantic

Databases: PostgreSQL, MongoDB, Supabase, Neon Postgres, Vector Databases

Cloud & Version Control: AWS (S3, IAM), Git, GitHub

AI/ML: Agentic AI, LangChain, Ollama, HuggingFace, MCP, NLP, Deep Learning, Computer Vision, scikit-learn

Security: Authentication, Passwordless Authentication, Rate Limiting

EXPERIENCE

Walmart Global Tech - Software Engineering 2026

Virtual Experience Program

- Executed software engineering projects covering **advanced data structures, software architecture, relational database design, and data munging**, translating requirements into **scalable technical solutions**.
- Designed and implemented **Java data structures** and **database workflows**.

Experimental Learning Centre, TIET Jun 2025 – Jul 2025

Summer Research Intern

- Engineered DriveSafeAI**, a multimodal driver-fatigue monitoring system integrating **2 data modalities - IoT sensor signals and computer-vision inputs** - to trigger real-time safety alerts.

NailsByPulisha March 2026 – Jun 2026

Freelance Web Developer

- Developed and deployed** a full-stack nail-salon booking platform using **NestJS, PostgreSQL and server-side APIs** for zero-downtime database hosting.
- Implemented a secure server-side booking with rate limiting, processing **150+ appointment requests**. ([GitHub](#))

ACM Thapar Student Chapter November 2024- August 2026

Executive Board Member, Head of Collaborations

- Organised **technical workshops, hackathons and coding** bootcamps alongside producing technical content for student developers.

PROJECTS

CampusBazaar – Full-Stack Marketplace Platform

- Architected and deployed a **full-stack marketplace** using **Next.js, TypeScript, React Router**, and an **agentic Gemini API layer**.
- Integrated **secure, passwordless magic-link authentication** restricted to verified institutional domains, secure access for 200+ users. ([GitHub](#))

Adhikar.AI - A Full Stack Agentic Copilot for Government Scheme Access

- Engineered a 5-stage Agentic AI platform using **Next.js, PostgreSQL, FastAPI & LLMs** to help CSC operators match citizens with **1,000+ government schemes**, achieving **94.7% extraction accuracy** and **89.6% eligibility recall** across 15 test cases.
- Developed multilingual scheme discovery and document-checklist generation in English, Hindi & Punjabi, achieving **95% accuracy**. ([GitHub](#))

Resume Job Analyser & Recommendation System (RAG)

- Built a full stack **RAG-powered Resume - JD Analyzer** using **LLMs, TF-IDF & cosine similarity** to identify skill gaps and generate personalized career roadmaps.
- Indexed **101 learning resources across 112 skills and 12 categories**, retrieving **Top-3 resources per missing skill**. ([GitHub](#))

AI Website Guardian - Agentic AI System

- Designed a **real-time multi-agent reasoning system** using **Ollama-hosted LLMs** to detect visitor intent on websites and automate decision-making. ([GitHub](#))

ACHIEVEMENTS & CERTIFICATION

- Amazon ML Summer School 2026:** Top 3,000/130,000+ applicants
- Alta School of Technology-** AI Builders Fellow 2026
- National Winner** - Toycathon 2021 | **National Semi-Finalist** - Flipkart GRID 8.0
- Codeforces Master's CP Camp:** Selected from 60,000+ applicants, Hall of Fame | **2nd Runner-Up** – Saturnalia Hackathon 2024 & CodeSprint 2024–25
- 750+ LeetCode**
- Certifications** : AI Engineer Track - Agent & MCP | HackerRank SQL (Advanced) | Kaggle: Data Visualization, Intro to ML, Deep Learning, Computer Vision