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.**

Experiential 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)

ShadowDiff – API Regression Testing Tool

- Built a **Node.js traffic record-and-replay tool** that detects API regressions by diffing responses across versions, with automatic noise filtering (v1-vs-v1 baseline) to suppress volatile fields.
- Caught **4/4 planted regressions with 0 false positives** across **200 replayed requests**; added concurrent replay, path normalization, a React diff dashboard, and CI exit codes. (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% field-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)

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
- **800+ LeetCode**
- **Certifications :** HackerRank SQL (Advanced) | Kaggle**:** Data Visualization, Intro to ML, Deep Learning, Computer Vision | Introduction to Cloud Computing (Simplilearn) | AI Engineer Track - Agent & MCP