PARTEEK **GARG**

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LinkedIn | GitHub | LeetCode | Portfolio

Summary

First-year B.Tech CSE (Data Science) student at NMIMS Chandigarh, focused on building production-grade software systems. Developed three independent full-stack projects — a RAG-based credibility platform (Veralon), an academic management system (Campus Care), and a bioinformatics simulator (DNA Encoding) — demonstrating applied skills in TypeScript, React, Node.js, and AI integration. Certified in Oracle Cloud Infrastructure. Actively practicing problem-solving on LeetCode.

Skills

Programming Languages	Python · Java · JavaScript · TypeScript · C
Frontend	React.js · HTML5 · CSS3 · Tailwind CSS · Framer Motion
Backend & Tools	Node.js · Express · Git · GitHub · VS Code · Vite
Databases	Supabase (PostgreSQL) · Drizzle ORM · localStorage
AI / Data Science	Groq LLM · RAG Architecture · Data Science (learning)
Domains	Full Stack Web · Bioinformatics · Academic Tools

Education and Training

B.Tech: **Computer Science (Data Science)**   *2025-Present*
SVKM's NMIMS   *Chandigarh*

Certifications

Oracle Cloud Infrastructure 2025 Foundations Associate — Oracle   *Feb 2026*

OCI AI Foundations Associate — Oracle   *Feb 2026*

Projects

Campus Care   Github
Vanilla TypeScript · Auth0 · jsPDF · Playwright · localStorage
‣ Built a fully client-side academic platform with attendance tracking, CGPA/SGPA calculation, and what-if simulation — developed without any UI framework using pure TypeScript DOM manipulation
‣ Implemented Auth0 authentication with per-user localStorage scoping and an automatic silent data migration engine supporting legacy multi-semester data structures
‣ Added client-side PDF report generation (jsPDF) and Playwright E2E test coverage; developed following the complete Design Thinking framework as part of the TII course

DNA Encoding   Github
React · TypeScript · Node.js · Express · Framer Motion · Drizzle ORM · PostgreSQL
‣ Built a full-stack interactive simulator converting text to DNA nucleotide sequences via a deterministic binary-chunking pipeline with configurable base mappings and live validation
‣ Rendered a live animated SVG double helix using Framer Motion responding to real-time input changes, with nucleotide composition stats and an educational insights panel
‣ Expanded from a single HTML file university assignment into a production-grade application with PostgreSQL persistence, REST API, TanStack React Query, and in-memory fallback

Veralon   Github

React · TypeScript · Node.js · Express · Groq LLM · Supabase · Auth0 · Drizzle ORM
▸ Built a RAG-based credibility verification platform evaluating claims (text, URL, PDF, image) against up to 30 deduplicated sources via a deterministic 13-step verification pipeline
▸ Engineered an 8-component 100-point scoring engine using pure arithmetic — zero LLM involvement in final scoring math — ensuring fully reproducible, auditable results with SHA-256 audit trails
▸ Implemented Union-Find evidence clustering, Row-Level Security on all Supabase tables, Auth0 authentication, OWASP-aligned rate limiting, and Zod input validation throughout