

RAHUL GEHLOT

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Education

Vellore Institute of Technology, Bhopal

October 2022 - July 2026

Bachelor of Technology in Computer Science and Engineering (Specialization in AI - ML)

Bhopal, Madhya Pradesh, India

CGPA: 8.67/10.0

Technical Skills

Programming Languages: Python, JavaScript, C++

Web / Backend: Node.js, Express.js, React, FastAPI, REST APIs

Machine Learning & Data Libraries: PyTorch, scikit-learn, NumPy, Pandas

Databases: SQLite, MongoDB, MySQL

Tools: Git, GitHub, VS Code, Jest

Projects

Hisaab-Pro

[Product Page](#) | [Repo](#)

Tech Stack: Node.js, Express.js, SQLite, JavaScript, Jest

January 2026 - April 2026

- Created and launched an offline-first double-entry accounting system featuring 9 core business modules, automating ledger transactions, GST-ready invoicing, and generating 6 comprehensive financial reports (Balance Sheets, P&L, aging schedules).
- Secured sensitive business data using AES-256 encrypted SQLite databases, implementing Write-Ahead Logging (WAL) to improve data integrity and reduce risk of corruption during application crashes or unsafe USB drive removals.
- Developed an automated payroll module linking daily staff attendance to ledger accounts, supported by a backend suite of 350+ Jest tests across 18 files to validate logic and prevent duplicate processing.
- Iterated across 2+ product versions (client deployment and internal build), adding payroll automation, attendance-linked salary processing, and client-side PDF exports.

Skillece

[Live Site](#) | [Repo](#)

Tech Stack: React 19, FastAPI, PyTorch, NumPy, Gemini API, Azure AI

July 2025 - March 2026

- Architected a full-stack career platform as a capstone project, developing a 3-stage recommendation pipeline that evaluates a 692-skill vocabulary to map user profiles against 894 occupations with low-latency (~1 ms) inference.
- Trained predictive machine learning models in PyTorch and designed a custom pure NumPy inference layer, reducing backend deployment crashes to near-zero while maintaining inference accuracy.
- Engineered an automated campus placement engine that parses academic grade histories and applies a 4-variable algorithmic scoring model, accelerating student shortlisting with zero LLM dependency.
- Built a job market analytics dashboard processing 30,000+ job postings, equipping users with ML-based salary predictors and an interactive offer evaluator benchmarking data across 25+ countries.

SwapHub

[Live Site](#) | [Repo](#)

Tech Stack: React, Node.js, Express, MongoDB, TailwindCSS, Passport.js

February 2024 - May 2024

- Built a campus-focused marketplace prototype enabling students to list, browse, and exchange items across categories including Buy, Sell, Donate, and Rent with responsive React components and structured routing architecture.
- Developed a full-stack application with Express.js REST APIs for product management and user operations, implementing MongoDB schemas with Mongoose ODM for data persistence and relational modeling between users and products.
- Implemented session-based authentication using Passport.js with passport-local-mongoose strategy, managing user registration, login workflows, secure password hashing, and cookie-based session persistence with express-session middleware for protected routes.
- Designed modular React component architecture with reusable UI elements including product grids, forms with client-side validation, image upload functionality, and category carousels, integrating Axios for HTTP communication with backend services.

Certifications

Blockchain Developer Certification – IBM Career Education Program

Adobe UI & UX (Graphic Design) – Issued by Ethnus via Codemithra

HTML, CSS, and Javascript for Web Developers – Issued by Johns Hopkins University via Coursera