

MANINDER SINGH

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PROFESSIONAL SUMMARY

Third-year Computer Science undergraduate specializing in full-stack and AI-integrated systems — from RAG-based assistants to real-time collaboration platforms. Strong DSA foundation (100+ LeetCode problems solved) backed by hands-on production-style projects across React, Node.js, and Spring Boot. Seeking a Software Engineering Internship to contribute to high-impact engineering teams.

SKILLS SUMMARY

Languages: C++, Java, JavaScript, SQL

Frontend: React.js, HTML, CSS, Tailwind CSS

Backend: Node.js, Express.js, Spring Boot, REST APIs, JWT, WebSockets

Databases: MongoDB, MySQL, PostgreSQL, Redis, Qdrant, pgvector

Cloud / DevOps: AWS (S3), Docker, Git, GitHub Actions, CI/CD, Linux, Postman, Maven

Core Subjects: Data Structures & Algorithms, OOP, DBMS, Operating Systems, Computer Networks

PROJECTS

DevConnect – AI-Powered Student Collaboration Platform

Apr 2026 – Aug 2026

- Architected a real-time student collaboration platform from the ground up, implementing JWT-based authentication, role-based access control, and API rate limiting to secure the system against abuse.
- Built a live collaborative coding editor (Google-Docs-style) and real-time instant messaging/notifications, both synchronized over WebSockets for seamless bidirectional communication.
- Eliminated redundant database hits by designing a Redis caching and session-management layer, and integrated AWS S3 to handle file/media storage at scale.

Tech Stack: React.js, Node.js, Express.js, MongoDB, Redis, WebSockets, JWT, AWS S3

RepoMind – AI Repository Assistant

Jul 2026 – Sep 2026

- Designed and built an AI-powered assistant that applies Retrieval-Augmented Generation (RAG) to let developers query any GitHub repository in plain English.
- Engineered a semantic search pipeline by chunking and embedding repository source code into PostgreSQL (pgvector), then paired it with OpenAI API + prompt engineering to return accurate, context-grounded answers.

Tech Stack: Spring Boot, PostgreSQL (pgvector), OpenAI API, RAG

E.D.I.T.H – Offline UPI Payment System

Sep 2025 – Mar 2026

Emergency/Encrypted Decentralized Intelligent Transaction Hub

- Solved the offline-payments problem by architecting a UPI system that lets two devices complete a secure transaction with zero internet connectivity, using QR-based initiation and encrypted, signed transaction tokens to block tampering or replay.
- Built an automated sync-and-reconciliation engine that queues pending transactions offline and settles them the moment connectivity returns, ensuring no payment is lost or duplicated.

Tech Stack: Java, Spring Boot, React.js, PostgreSQL, Redis, QR Code

TRAINING

MERN Stack with DevOps – Lovely Professional University (LPU)

Jun 2026 – Jul 2026

- Completed hands-on training covering MongoDB, Express.js, React.js, Node.js, and DevOps practices (CI/CD, containerization, deployment workflows).
- Built and deployed Vector, a full-stack AI-powered career guidance platform for college students using React, Express, MongoDB, and the Gemini API for personalized recommendations, with secure authentication, resume/PDF parsing, and a CI/CD pipeline to containerize and deploy to production.

CERTIFICATIONS

- React.js (15+ hrs MOOC, Proctored Exam) | Tech Veda — Cert No. TV/MAR25/RJ/746 — Mar 2025
- Artificial Intelligence Fundamentals | IBM SkillsBuild — Feb 2026
- Programming Using C++ | Infosys Springboard
- Database Management System Part 1 | Infosys Springboard

ACHIEVEMENTS

- Secured a Top 10 rank in a college-level Capture The Flag (CTF) cybersecurity competition organized by Quick Heal.
- Solved 100+ problems on LeetCode, strengthening core DSA and problem-solving skills.

EDUCATION

Lovely Professional University (LPU)

2024 – 2028 (Expected)

B.Tech, Computer Science & Engineering — CGPA: 8.96/10.0 — Currently in 3rd Year

Army Public School, Mamoon Cantt

Senior Secondary (12th), CBSE — 84% (2022–23) | Secondary (10th), CBSE — 90% (2020–21)