Prakhar Jain

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Summary

B.Tech Computer Science undergraduate (2027) with strong fundamentals in **Data Structures & Algorithms, OOP, and problem-solving**, and hands-on experience building **full-stack applications** using **React.js, Node.js, Express.js, and SQL/NoSQL databases**.

Education

ABES Engineering College, AKTU — Ghaziabad, Uttar Pradesh
B.Tech in Computer Science | CGPA: 7.8/10 — *Oct 2023 – Jul 2027*

Experience

Coral Telecom Limited — Jun 2026 – Sep 2026
Research and Developer Intern — *Noida, Uttar Pradesh*

- Built a **full-stack internal admin panel** using **React.js, Node.js/Express.js**, and **RESTful HTTP/JSON APIs** for managing users, devices, and network configurations.
- Tested and validated **software functionality** using **Linux-based tools** and **protocol analysis**, debugging implementation issues across the software stack and preparing **technical documentation**.
- Implemented **S10 interface support** in the **Open5GS MME** and debugged **C-based protocol handling** for **LTE mobility management**.

Open Source Contributor — Apr 2026 – Jun 2026
CNCF / Kubernetes (Headlamp) · Tracer-Cloud (OpenSRE)

- Debugged and fixed a **memory leak** in Node Details drain-status polling and resolved **Windows path-handling test failures** via **GitHub code review** with maintainers (#5340, #5341, #5343).
- Improved **WebSocket stability** with terminal shell fallback and extended the **headlamp-plugin CLI** to support scoped package names (#5710, #5715).
- Improved **error and retry-rate detection** in OpenSRE's Grafana config normalization; fixed the **Watchdog Telegram alarm helper** and alarm state transition handling (#1186, #1158).

Projects

TabMind | *LLM (Llama 3.1 via Groq API), Prompt Design, MERN Stack, Chrome Extension* — Mar 2026

- Built an **AI-powered browsing-intent classifier** integrating **Llama 3.1 via Groq API** for near real-time categorization, using **prompt design** to produce consistent intent labels.
- Developed a **React-based Chrome Extension and dashboard** using the MERN stack, Shadow DOM overlays, Socket.io, and MongoDB to capture and synchronize **real-time browsing activity**.
- Built a **responsive Tailwind CSS dashboard** with Recharts to visualize productivity trends and generate weekly focus insights from AI-categorized data.

FinTrack | *Next.js, TypeScript, Supabase (PostgreSQL), Tailwind CSS, Recharts* — May 2026

- Developed a **responsive web application** using **Next.js, TypeScript, Tailwind CSS, and Recharts** for tracking income, expenses, budgets, and category-wise spending.
- Implemented full **CRUD functionality** and **multi-criteria filtering** by keyword, transaction type, category, and date range for efficient expense management.
- Engineered an **Optimistic UI** workflow for instant updates across charts and tables, backed by **Supabase (PostgreSQL)** with **Row Level Security**.

CodeCollab | *React.js, Node.js, WebSockets, Yjs, Monaco Editor* — Feb 2026

- Developed a **real-time collaborative IDE** using **React.js, Node.js, WebSockets, and Yjs (CRDTs)**, enabling conflict-free concurrent editing and terminal streaming.
- Implemented **JWT-based room access control** for secure, isolated coding sessions, with a Node.js/Express backend and MongoDB for persistent session management.
- Integrated **Jitsi video conferencing**, team chat, and an **interactive whiteboard** into a unified workspace for collaborative coding sessions.

Technical Skills

Languages: C++, Python, JavaScript, TypeScript, C, SQL
Core CS: Data Structures & Algorithms, OOP, DBMS, Problem Solving, RESTful Services
Frontend & Backend: React.js, Node.js, Express.js, Tailwind CSS, WebSockets, Socket.io
Databases: PostgreSQL, MongoDB, Supabase
Tools: Git, GitHub, Linux, Postman, Vercel, Netlify
AI / LLM: Groq API (Llama 3.1), Prompt Design, GitHub Copilot, Cursor, Claude