

Sahil Pal

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EDUCATION

Indian Institute of Information Technology & Management
Bachelor of Technology in Information Technology – CGPA: 7.52

Gwalior, Madhya Pradesh
Aug. 2023 – Present

EXPERIENCE

Software Engineer Feb 2026 – Present
Stealth Startup | Node.js, Supabase, PostgreSQL, Redis, CI/CD Remote

- Designed and architected a scalable Node.js backend utilizing Supabase (PostgreSQL + Auth) to establish reliable service boundaries.
- Led comprehensive software feature planning, translating complex product requirements into precise technical specifications and execution roadmaps.

Web Development Intern May 2025 – Jul 2025
Yamaha Motor Solutions India Pvt. Ltd. (YMSLI) | React.js, Node.js, MongoDB, JWT Remote

- Built an internal React.js and Node.js dashboard with custom visualization tools, accelerating cross-departmental reporting speeds by **30%**.
- Engineered IoT API integrations and optimized MongoDB schemas for agri-machinery, reducing manual data entry by **20%** and speeding up complex queries.
- Integrated robust JWT authentication for secure dealer and farmer data access, ensuring **100%** compliance with organizational security protocols.

TECHNICAL SKILLS

Languages: C, C++, Python, JavaScript, TypeScript, SQL

Frameworks/Libraries: React.js, Node.js, Express.js, Next.js, React Native, Tailwind CSS, Redux, Three.js

Databases: MongoDB, PostgreSQL, Supabase, Redis, Mongoose

Tools: Git/GitHub, Docker, Postman, Linux, GitHub Actions (CI/CD), Shell Scripting, Expo

PROJECTS

DevDuels – Online Coding Battle Platform | React, Node.js, Socket.IO, MongoDB *Self Project*

- Built a real-time coding-battle platform using React, Tailwind CSS, and Monaco Editor with timed contests, penalties, and fair leaderboards.
- Implemented JWT-based auth (access + refresh tokens) and live sync via Socket.IO rooms with conflict-free operations and reconnection logic.
- Engineered a RESTful modular architecture with typed contracts, background workers, and reusable components for rapid iteration.

MedFleet – Telemedicine & Emergency Response Platform | React Native, Supabase *Freelance Project*

- Architected a scalable real-time dispatch app with Supabase (RLS, composite indexes, audit logs), load-tested for **1,200+** concurrent users with queries under **200 ms**.
- Cut ambulance dispatch time from **5 min** to **90 s** via geolocation, smart assignment, geo-fencing, and push notifications with delivery guarantees.

SnapSnack – Food Sharing Mobile App | React Native, TypeScript, Supabase *Self Project*

- Built a React Native app in TypeScript for real-time food sharing with location-aware feeds, live Supabase subscriptions, and RLS-secured Postgres schema.
- Leveraged Supabase Storage with CDN for fast, scalable image uploads and retrieval across all listings.

ACADEMIC ACHIEVEMENTS

- Achieved **99 percentile** in JEE Main 2023 among 1.4 million candidates, placing in the **top 1%** nationwide.
- Secured **AIR 11,994** in JEE Advanced 2023 among 200,000+ aspirants, qualifying for central institute counselling.
- Solved **300+** algorithmic challenges across LeetCode, Codeforces, and GFG, strengthening competitive programming skills.

POSITIONS OF RESPONSIBILITY

- Core Team Member – Design, Aurora Fest:** Designed visual branding and ensured consistent design language across all fest events.
- Core Team Member, Urja (Sports Fest):** Managed logistics and team coordination, ensuring smooth execution of institute's annual sports events.
- Founder, It's Not Too Late:** Led a student climate organization conducting workshops, campaigns, and local tree-planting drives.
- Member, Rotaract Club:** Mentored underprivileged children via weekend literacy sessions and organized community initiatives.