

Vijaypal Singh Rathore

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LinkedIn · GitHub · LeetCode · Portfolio

Education

Indian Institute of Information Technology, Dharwad

Expected Graduation: 2027

B.Tech in Data Science and Artificial Intelligence | CGPA: 8.17 | Minor: Cyber Security

Experience

Full Stack Engineer Intern

2026

Farmlokal *Next.js, TypeScript, MySQL, Drizzle ORM, AWS (Bedrock, SQS), FCM, ONDC, WebSocket, NextAuth.js*

- Integrated ONDC catalog/order flows, improving logistics visibility and tracking for 100+ daily orders.
- Used AWS Bedrock SDK to auto-generate SEO metadata and validate ONDC-compliant category mapping during product onboarding, improving catalog consistency, search discoverability, and listing accuracy.
- Implemented abandoned-cart recovery automation with scheduled Email and WhatsApp reminders (5 min, 30 min, 24 hrs) for users who dropped off before checkout, improving re-engagement and checkout conversion.
- Implemented FCM push notifications for admin broadcasts and AWS SQS workers for async product/metadata updates.
- Managed and enhanced 10+ admin modules: products, orders, inventory, dashboards, agent performance, WhatsApp ops, logs, and role-permission controls.

Quality Assurance Testing Intern

2025

Galaxy.ai *Software Testing & Bug Detection*

- Tested web & mobile apps across 2+ platforms; logged reproducible defects and validated UI/UX to improve release quality.

Virtual Cybersecurity Internship

2025

C-DAC (Centre for Development of Advanced Computing) *Cybersecurity & Digital Forensics*

- Analyzed network traffic/TCP behavior and used 3+ tools (Wireshark, Nmap, Nikto) for vulnerability assessment and testing.
- Performed digital forensics with 2+ tools (FTK Imager, Autopsy) and executed web application penetration testing.

Achievements

- GATE 2026 Qualified (Computer Science)**
- YUKTI — Chip Design Challenge 2025: 1st Place** | Designed complete ASIC flow (RTL to GDSII) using Verilog with clean DRC/LVS compliant layouts
- Vidyut Vega Hackathon 2025: 3rd Place** | Built optimized deep learning model for real-time mask detection on resource-constrained hardware

Projects

KrishiSakhi (AgriDost) [Live Demo]

2025

Cross-Platform Agricultural Ecosystem *Next.js, React Native/Expo, Node.js, JavaScript, MongoDB, Socket.io, RabbitMQ, Namecheap*

- Developed cross-platform web (Next.js) and mobile (React Native/Expo) application with JWT authentication, real-time chat with user discovery, AI chatbot (Gemini API), weather alerts, blog platform, and crop knowledge base
- Implemented RabbitMQ-based asynchronous Cloudinary image processing, e-commerce marketplace, and responsive UI/UX
- Performed Artillery-based load testing simulating 1,300+ virtual users, validating backend scalability at ~40–50 concurrent users and ~55 RPS with ~480 ms median and ~1.6 s p95 latency

TeamCollab - Enterprise Collaboration Platform [GitHub]

2026 – Ongoing

Scalable Microservices Architecture *Next.js, TypeScript, Express.js, PostgreSQL, Prisma ORM, Redis, Docker, Socket.io, Clerk*

- Engineered 6-service microservices architecture (User, Team, Project, Chat, Notification, API Gateway) with database-per-service pattern, PostgreSQL clusters, Redis caching, Docker containerization; implemented real-time collaboration (Socket.io) and Clerk OAuth + JWT authentication with circuit breaker for fault tolerance and gRPC-based internal communication
- Designed and implemented CI-ready, containerized services enabling independent development and deployment, improving scalability, maintainability, and system resilience in a distributed architecture

Technical Skills

Languages	C, C++, JavaScript, TypeScript
Frontend	HTML5, CSS3, React, Next.js, Redux, Tailwind CSS, shadcn/ui
Backend	Node.js, Express.js, MongoDB, PostgreSQL, Prisma ORM, Redis, RESTful APIs, Socket.io, gRPC, RabbitMQ
Mobile	React Native CLI, Expo, NativeWind
DevOps & Cloud	Docker, Jenkins, Kubernetes, Git, GitHub, Firebase, Appwrite, Cloudinary, MongoDB Atlas, AWS
Cybersecurity	Wireshark, Nmap, Nikto, FTK Imager, Autopsy
Core Concepts	DSA, System Design, Microservices, API Design
Certifications	HackerRank (CSS, JS), Lifology Global Fellow, C-DAC Cybersecurity Certificate
Spoken Languages	Hindi (Native), English (Conversational)