

Prakhar Agarwal

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TECHNICAL SKILLS

Programming Languages: Java, C, C++, Python, JavaScript, TypeScript, PHP

Frameworks Libraries: React.js, React Native, Next.js, Node.js, Bootstrap, Tailwind CSS, Express, Flutter

Databases: MongoDB, Firebase, PostgreSQL, SQL

Developer Tools Other: Git, GitHub, VS Code, Vim, Docker, GitHub Actions, Vercel, Postman, WebRTC, Socket.io, REST APIs, SEO

EXPERIENCE

AI/ML Intern, Schneider Electric (Campus Project)

May 2025 – Present

Manipal Institute of Technology, Manipal

- Working on an AI-powered document converter integrating Retrieval-Augmented Generation (RAG) using DocLine and LLMs.
- Built an intelligent pipeline for document ingestion, chunking, embedding, and querying using LangChain and FAISS.
- Improved accuracy of document query responses by 40% through iterative prompt engineering and hybrid retrieval techniques.
- Collaborating in a cross-functional team to deploy the system using FastAPI and Docker for scalable performance.

Web Development Intern, Vault of Codes

May 2025 – June 2025

Remote

- Designed and developed 12+ modular web components using React.js and Tailwind CSS, enhancing UI performance by 35%.
- Optimized RESTful API integrations with Node.js and MongoDB, cutting average response time by 40%.
- Delivered 5 major feature releases ahead of schedule through Agile collaboration, maintaining 90% unit test coverage.
- Implemented SEO and accessibility best practices, increasing Lighthouse performance score from 70 to 95.

PROJECTS

Auction Hub – Real-Time Auction Platform

Mar 2025 – Present

- Engineered a scalable full-stack auction system with real-time bidding and role-based access for 20+ concurrent users.
- Integrated WebSockets to deliver ≤ 100 ms bid updates, boosting user engagement by 25%.
- Delivered 15+ modules including bid history, filtering, sorting, notifications, and admin moderation.
- Secured all endpoints with JWT, achieving 99.9% uptime during 2-month beta testing.

Gate Keeper – Apartment Visitor Entry System

Feb 2025

- Developed a React Native app for real-time visitor approvals, serving 500+ residents and guards.
- Implemented Socket.io for ≤ 2 s notification delivery, reducing approval time by 60%.
- Designed intuitive UI with NativeWind and secured API with JWT, yielding 98% crash-free sessions.
- Streamlined visitor logging, cutting manual entry errors by 80%.

Get Meet – Real-Time Video Chat

Jan 2025

- Developed peer-to-peer video chat app using WebRTC and Socket.io, reducing call drops by 40%.
- Architected signaling server achieving ≤ 150 ms call setup time across regional tests.
- Built a responsive UI in HTML/CSS/JavaScript, supporting cross-browser compatibility and 95% user satisfaction.

EDUCATION

Manipal Institute of Technology

Aug 2022 – May 2026

B.Tech in Computer and Communication Technology

Udupi, Karnataka

Dr Virendra Swarup Public School

Apr 2008 – Mar 2021

Higher Secondary Education (ICSE)

Kanpur, UP

CERTIFICATIONS

Machine Learning Specialization – IBM Technologies

Big Data Specialization – University of California, San Diego

Generative AI – Google Cloud