

KARTIK AGARWAL

New Delhi, India

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Summary

Second-year Computer Science student at VIPS with hands-on experience building full-stack web applications using React, Next.js, Node.js, and MongoDB. Passionate about creating scalable, user-centric products and continuously improving through competitive programming and open-source projects.

Education

Vivekananda Institute of Professional Studies (VIPS)

Aug. 2024 – May 2028

Bachelor of Technology (B.Tech) in Computer Science

New Delhi, India

Relevant Coursework: Data Structures & Algorithms, Database Management Systems, Theory of Computation, Operating Systems, Probability & Statistics

Experience

Aurum Protocol

May 2025 – Jun. 2025

Strategy Intern

Remote

- Collaborated with the team on strategic planning and product discussions for an early-stage startup.
- Contributed ideas and feedback for platform features and user experience improvements.
- Participated in research and analysis to support product growth and go-to-market initiatives.
- Worked closely with cross-functional team members in a fast-paced startup environment.

Projects

BlogForge | *Next.js, MongoDB, NextAuth, Tailwind CSS* | [GitHub](#) | [Live Demo](#)

- Built a full-stack blogging platform with secure JWT-based authentication and role-based profile management.
- Implemented rich blog creation, editing, nested commenting, and reply threads – supporting full CRUD operations via REST APIs.
- Developed a trending posts algorithm and keyword search to improve content discovery and user engagement.
- Integrated MongoDB with Mongoose for efficient schema design and optimized query performance.

TuneTogether | *React.js, Node.js, Socket.io, Clerk* | [GitHub](#) | [Live Demo](#)

- Developed a real-time collaborative music listening platform enabling synchronized playback across multiple users.
- Implemented WebSocket-based synchronization using Socket.io, ensuring sub-second latency for shared sessions.
- Built room-based chat and music sharing features, allowing seamless real-time group interaction.
- Integrated Clerk for secure user authentication and session management across devices.

InkShelf | *Next.js, OpenLibrary API, Tailwind CSS* | [GitHub](#) | [Live Demo](#)

- Built a responsive book discovery platform powered by the OpenLibrary API with dynamic routing and genre-based browsing.
- Implemented optimistic UI patterns (loading skeletons) and debounced API requests to improve UX and reduce server load.
- Designed a fully responsive interface ensuring seamless cross-device browsing experience.

Technical Skills

Languages: C++, JavaScript (ES6+), HTML5, CSS3

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

Backend: Node.js, Express.js, REST APIs, Socket.io

Database: MongoDB, Mongoose

Tools & Platforms: Git, GitHub, Linux (Fedora), VS Code, Postman, Vercel