Vansh Aggarwal

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Portfolio

Software Development Engineer

Software Developer with expertise in designing and building **scalable web applications**. Proficient in both **backend and frontend** development, with strong experience in **Node.js, Express.js, MongoDB, and React.js**. Skilled in developing **RESTful APIs, authentication systems (JWT, bcrypt), database management, and cloud-based integrations**. Passionate about writing **efficient, maintainable code**, optimizing performance, and implementing best practices in **software architecture and security**.

SKILLS

Programming Languages	JavaScript, SQL, Python
Tools & Platforms	Git, GitHub, Vercel, Netlify, Appwrite, Figma, Postman, Cloudinary
Frameworks & Libraries	React.js, Express.js, Node.js, Chart.js, MongoDB, Redux Toolkit, Tailwind CSS, DaisyUI, Material UI

WORK EXPERIENCE

Web Development Intern   **Jun 2024 — Jul 2024**
Prasunet Company

- **DOM Manipulation** : Gained hands-on experience in DOM manipulation and Vanilla JavaScript, effectively enhancing interactive web applications.
- **Asynchronous Javascript** : Mastered Asynchronous JavaScript, improving performance and responsiveness in web projects.
- **Problem Solving** : Authored 5000+ lines of code across multiple tasks, demonstrating strong problem-solving skills and attention to detail.

PROJECTS

V-Blog   **Feb 2025 — Mar 2025**
- **Developed a full-stack blog application** using **React.js**, **Appwrite** (as BaaS), and **Redux** for efficient **state management**.
- **Implemented authentication** with Appwrite, allowing **secure user sign-up, login, and session management** while restricting post editing/deletion to the author.
- **Built a responsive UI** using **Tailwind CSS** and **DaisyUI**, ensuring a modern and accessible design with reusable UI components.
- **Implemented full CRUD operations** for blog posts, enabling **users to create, read, update, and delete** their posts while maintaining access control.

Video Streaming Platform (Backend)   **Jan 2025 - Feb 2025**
- **Developed a RESTful API** that mimics Youtube using **Node.js**, **Express.js**, and **MongoDB** with **secure JWT authentication** and **refresh tokens**.
- **Implemented video upload, streaming, and metadata management** with **Cloudinary** for efficient file storage and retrieval.
- **Designed interactive features** like **subscriptions, comments, likes/unlikes, and playlist management**, enhancing user engagement.
- **Built channel analytics**, tracking **views, subscribers, and video performance**, while optimizing database queries using **Mongoose, Multer, Bcrypt, and pagination**.

Gemini Clone   **Jan 2025**
- **Built** a Gemini AI clone using **React** with **progressive rendering**, enabling seamless **word-by-word data display** for a natural reading experience.
- **Implemented prompt history management**, allowing users to **reload recent prompts** instantly without response interference.
- **Utilized Context API** for **centralized state management**, efficiently handling inputs, results, and loading indicators.
- **Enhanced user experience** with **dynamic loading indicators**, ensuring smooth feedback during data retrieval.

EDUCATION

Mata Rajkaur Institute of Engineering and Technology   **October 2021 — June 2025**
Bachelor of Technology in Computer Science and Engineering — 8.32 CGPA   *Rewari, Haryana*
Coursework: Frontend Development, Operating System, Data Structure, Analysis Of Algorithms, Artificial Intelligence, Machine Learning, Networking, Databases .

Swami Uma Bharti Public School, Rewari   **April 2018 — April 2020**
Senior Secondary — 90.5%   *Rewari, Haryana*

ACTIVITIES

Actively post work progress and code files on Linkedin, Github and X to showcase the work, projects and progress to stay relevant in industry.
Participated in hackathons like Juspay and TVScredit 6.0.