

Anshul Wadhwa

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Experience

Full Stack Intern

November 2024 – March 2025

Innotech

- Developed, deployed, and maintained a full-stack web application handling **200-300 daily users**, ensuring high availability and scalability.
- Improved response times by **40%** and reduced database load through efficient **Redis caching**.
- Strengthened** API security and reliability by applying rate limiting, reducing bot traffic by **50%** and ensuring consistent performance.

Software Developer Intern

July 2024 – September 2024

Journim

- Built the MVP of the platform, focusing on **backend development** and **deployment**.
- Managed deployment on **AWS** with **Docker** containerization to streamline the development workflow.
- Optimized application performance and responsiveness through precise coding and **optimization**, resulting in a **20%** performance improvement.

Projects

Chatter | Next.js, Node.js, Express.js, PostgreSQL, Prisma, Socket.io, Redis, Zustand

(Ongoing)

- Architecting a **scalable** chat application with **real-time message** syncing across devices.
- Using **Redis** for efficient message **caching** and queuing, ensuring **low latency** and high performance during peak usage.
- Implementing authentication with React Hook Form, Zod for validation, and **debouncing** to optimize requests.

RAG Chatbot | TypeScript, Next.js, Node.js, Langchain, AstraDB, Gemini API

- Created a **personalized RAG chatbot** by integrating niche data sources, such as resume and social profiles, to deliver highly contextual responses.
- Implemented **data scraping** and vector database techniques to enhance the chatbot's ability to retrieve and generate accurate information.

Acces Backend | Node.js, Express.js, MongoDB, AWS, Nginx, Cloudflare

- Built the backend for a mobile application (React Native) with secure **OTP** authentication, effective authorization, and efficient CRUD operations, resulting in a **25%** improvement in overall system efficiency.
- Deployed the application on **AWS EC2** and leveraged **AWS auto-scaling** and **load balancing** for improved performance and reliability.
- Set up **CI/CD** pipelines with GitHub Actions and used Nginx as a **reverse proxy** for traffic management.
- Managed **DNS** and domain configurations using **cloudflare** to ensure secure and reliable access to the platform.

Blogverse | MERN, Firebase, Redux, Tailwind CSS, Flowbite, Docker

- Developed a responsive full-stack blog application with a comprehensive **admin dashboard** for managing users, posts, and comments.
- Refined content management and insights by adding recent **article sections** and **user analytics**.
- Optimized** backend performance, achieving a **15%** reduction in page load times and improving overall application responsiveness.

Technical Skills

Languages: JavaScript, TypeScript, Java, Golang

Frontend: React.js, Next.js, React Native, Redux, Zustand, Tailwind CSS

Backend: Node.js, Express.js, Next.js, Langchain

Database: MongoDB, PostgreSQL, Redis

Developer Tools: Git, GitHub, AWS, Docker, Nginx

Positions of Responsibility

Organizer, FOSS United Jalandhar (Apr 2024 - Present): Established and led the Jalandhar FOSS community, fostering open-source collaboration and organizing meetups to engage members.

Microsoft Learn Student Ambassador (Jan 2024 - Present): Conducted **2** workshops on Microsoft technologies, empowering students with valuable skills.

Web Development Lead, GDSC (Aug 2023 - July 2024): Conducted an introductory web development workshop, and led a team of **3** in designing and implementing the college technical fest website.

Education

Guru Nanak Dev University

Bachelor of Technology in Computer Science

2022 - 2026

Jalandhar, Punjab