

Chetan Wadhwa

Backend Engineering | AI Applications

Delhi, India | Email | GitHub | LinkedIn | Portfolio | YouTube

Summary

Backend-focused software engineer with hands-on experience building Node.js applications, REST APIs, WebSocket-based collaboration, authentication, and database integrations. Also building AI applications using LLM APIs, retrieval-augmented generation (RAG), and human-in-the-loop agent workflows.

Technical Skills

Languages: JavaScript, TypeScript, Python, SQL, C++

Backend: Node.js, Express.js, REST APIs, WebSockets, JWT, Zod

Databases & Messaging: MongoDB, MySQL, Redis, Pinecone

AI: OpenAI SDK, Google Gemini, LLM APIs, RAG, Agent Workflows

Frontend & Tools: React, Next.js, Tailwind CSS, Git, Postman

Deployment: Railway, Render, Vercel

Selected Projects

CarbonCopy – AI Digital Representative

[Demo](#) [Details](#)

Python, LLM APIs, Gradio

- Built an AI representative that answers questions about me and collects contact requests from visitors.
- Implemented human escalation and push notifications for connection requests and technical questions the agent cannot confidently answer.

CoreWire – Collaborative Code Workspace

[Demo](#) [GitHub](#)

Node.js, Express, WebSockets, MongoDB, React

- Built a collaborative coding workspace with shared code editing, room-based collaboration, live chat, and code execution through the JDoodle Compiler API.
- Implemented JWT authentication, bcrypt password hashing, Zod input validation, debounced auto-save, and WebSocket synchronization for joining users.

C-Flux – RAG Backend (In Progress)

[GitHub](#)

Node.js, WebSockets, Redis, Pinecone, Gemini

- Developing a RAG backend that separates API handling from background document processing and embedding generation.
- Exploring Redis queues and Pub/Sub for background jobs and streaming AI responses to connected WebSocket clients.

Experience

Amy Softech Pvt. Ltd.

June 2024 – July 2024

Frontend Developer Intern | Noida

- Implemented client-side JavaScript validation and JSON payload formatting to catch invalid form inputs before submission.
- Updated data collection forms to improve input consistency and integration with backend APIs.

Education

Maharaja Surajmal Institute of Technology (MSIT), GGSIPU

2022 – 2026

B.Tech | CGPA: 8.5/10

Leadership

Chairperson, IEEE PES MSIT

Feb 2025 – Feb 2026