

# Kunal Kashyap

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**Portfolio:** kunal-1.vercel.app

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## About Me

Full-stack developer with expertise in website development using **Node**, **React**, and **JavaScript** frameworks. Strong problem-solving skills, analytical thinking, and dedication to high-quality, scalable code.

## Education

### B.Tech in Computer Science and Engineering

2021 - 2024

Dr. Akhilesh Das Gupta Institute Of Technology, GGSIPU

**CGPA: 9.22 / 10**

### Diploma in Digital Electronics

2018 - 2021

Ambekar Institute Of Technology, BTE

**Score: 80.30%**

## Skills

- **Programming Languages:** Java, JavaScript, TypeScript
- **Backend Technologies:** Node.js, Express.js, RESTful APIs, Web Sockets, WebRTC
- **Frontend Technologies:** React.js, Next.js, Tailwind CSS
- **Developer Tools:** Git/GitHub, Electron, Docker
- **Databases:** MongoDB, MySQL

## Projects

### Git-Go: A Simple Git Implementation

- Git-Go is a lightweight, custom-built implementation of few Git commands in Go, designed to replicate Git's core functionality for learning purposes.
- To gain a deeper understanding of how Git operates internally, improve problem-solving skills, and experiment with the Strategy Pattern for clean and maintainable command execution logic.

### Vaartalap: Real-Time AI Translation and Transcription

- Led the development of a real-time AI system for translation and transcription in video conferencing using Whisper.
- Integrated multilingual language support, real-time processing, and dynamic language detection using Whisper AI.
- **Live Link:** vaartalap

### Encypher Chat App

- Developed a chat application using the MERN stack and Web-Socket technology to enable real-time messaging functionality. With features such as user authentication, private and group chats.
- **Live Link:** encypher-chat

## Work Experience

### Software Engineer

STACKIOT TECHNOLOGIES Pvt. Ltd.

May 2024 – Present

- Spearheaded the development and optimization of client-focused projects, achieving a 25% reduction in page load times and enhancing user engagement.
- Collaborated with the team to refactor and optimize legacy code, resulting in a 25% improvement in system performance and enhanced code maintainability.

### Software Developer Intern

STACKIOT TECHNOLOGIES Pvt. Ltd.

January 2024 – May 2024

- Successfully implemented robust features that enhanced platforms build times, reducing system downtime by 20%.
- Demonstrated exceptional technical skills by contributing to the successful delivery of 3 key projects during the internship, leading to a full-time job offer.

## Achievements

- Published research paper: "VAARTALAP: Embedding Whisper AI-like Model into a Video-Conferencing System to Aid Real-Time Translation and Transcription" (2023)

## Certifications

- **Fundamentals of Back-end Engineering** Jan 2025
  - Gained in-depth knowledge of back-end engineering, including HTTP/HTTPS protocols, RESTful API design, database indexing, and distributed system architecture
  - Developed expertise in performance optimization, encompassing load balancing, scaling, caching strategies (Redis), and security practices such as encryption, authentication, etc.
- **The Complete 2023 Web Development Boot camp** Nov 2023
  - Acquired expertise in full-stack web development using HTML, CSS, JavaScript, Node.js, and Express.js.
  - Designed and deployed dynamic web applications incorporating MongoDB, RESTful APIs, and user authentication.
- **NDG Linux Essentials Course - Cisco Networking Academy** Oct 2022
  - Gained comprehensive knowledge of the Linux operating system and command line navigation.
  - Developed proficiency in Linux security and file permissions management.
- **Postman API Fundamentals Student Expert** Aug 2022
  - Proficient in essential skills required for consuming APIs in Postman and applications.
  - Demonstrated expertise in testing APIs for modern software development.