

Bharath Kumar Reddy

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TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, GoLang

Frontend: React.js, Tailwind CSS, Next.js, Vite, HTML5, CSS3, EJS, Shadcn

Backend: Node.js, Express.js, RESTful APIs, Server-Side Rendering, JWT, bcrypt, MySQL, MongoDB, Mongoose, Websockets

Other: AWS (Lambda, S3, Ec2) Git, Figma, Postman, Unix/Linux, DSA, HLD(Basic), DBMS, Networks, OS

EXPERIENCE

Full-Stack Developer Intern

Feb. 2025 – June 2025

Viper Network

Bangalore, India

- **Developed** a REST API endpoint to deliver real-time connection status for the Viper Network's internal test dashboard, to enhance user experience for **100+ node operators**.
- **Optimized** authentication middleware using Go and Gin, implementing JWT-based validation with enhanced security measures, reducing unauthorized access attempts **by 30%**.
- **Enhanced** error handling across REST API routes, designing standardized JSON error responses with Zap logging, improving debugging efficiency by **25%**.

AI Research Intern

Sep. 2023 – Nov. 2023

Intrainz

Bangalore, India

- Conducted unsupervised machine learning research, implementing k-means clustering for data analysis and pattern recognition.
- Built a spam news detection classifier using Natural Language Processing (NLP) and supervised learning, improving content filtering accuracy by 32%.

PROJECTS

[BrieflyAI](#) | React.js TailwindCSS Gemini API

2025

- **Integrated** the Google Gemini API for advanced text generation, enabling real-time, prompt-based summarization with **99% processing accuracy**.
- **Engineered** a responsive and intuitive user interface with React.js and Tailwind CSS, featuring file upload, editable text areas, and email sharing, resulting in a **40% improvement in user workflow efficiency**.
- **Implemented** secure API key management using Vite environment variables, **ensuring 100% credential protection** on the client-side.

[Texty](#) | Node.js Express Socket.IO React.js TailwindCSS

2025

- **Built** a real-time group chat app with room-based architecture using MERN stack and Socket.IO, enabling instant, temporary conversations without login - **reduced user friction by 100%**.
- **Developed** an Express.js + Node.js backend with Socket.IO server, featuring in-memory room management and Auto dissolution logic, **maintaining 100% memory efficiency**.
- **Integrated** event-based message broadcasting and system notifications (user-joined, user-left) with dynamic UI updates, enabling synchronized multi-user chat with 0 message loss.

[Code-Sync Live](#) | Node.js Express MongoDB Socket.IO jwt Docker

2025

- Built CodeSync Live, a real-time collaborative code editor for seamless multi-user coding.
- **Implemented** RESTful APIs and WebSocket with Socket.IO, **achieving 99.9% uptime for multiple users** per room.
- **Deployed** scalable backend with Docker, **reducing server response time by 40%** via optimized MongoDB queries.

ACHIEVEMENTS

- **Published** a 2025 IEEE Xplore and Scopus-indexed research paper on Bitcoin hardware wallet design, implementation, and security analysis & **Won 1st Place** and Best Innovative Project in DSCE Project Showcase 2025.
- Won a **\$300 USDC bounty** for designing an NFT in a collaboration between Superteam India and dReader, showcasing creativity and expertise in digital design.
- Won multiple Solana Foundation bounties as Superteam Member and Contributor.

EDUCATION

Dayananda Sagar College of Engineering

Grade: 8.04/10

Dec. 2021 – July 2025

BE in Electronics and Telecommunications Engineering

Bangalore, India