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PROJECTS

- **GrammyAI AI Tone-Consistent Content Generator** *Next.js, Bun, React, Prisma, Tailwind, Vercel, Perplexity API*

  - **AI Writing Tool**: Built an AI writing tool that maintains a user's tone and generates platform-specific content for LinkedIn, X, Instagram, and blogs.
  - **AI Pipeline**: Designed a modular AI pipeline using Perplexity API for tone extraction, rewriting, and platform formatting.
  - **Performance**: Implemented schema validation, optimized caching, and Bun runtime improvements reducing inference latency by 35%.
  - **Deployment**: Deployed using Vercel serverless functions with Prisma ORM for reliable and scalable data workflows.

- **Vanix Zero-Knowledge Secure Messaging & P2P File Sharing** *Next.js, React, Bun, TypeScript, PostgreSQL, Prisma, Socket.io, WebRTC*

  - **Privacy-First Platform**: Built a zero-knowledge secure messaging and file-sharing platform where **100% of encryption occurs client-side**, ensuring servers never access plaintext data.
  - **Encryption Architecture**: Implemented **AES-GCM-256 encryption** using Web Crypto API with ephemeral keys embedded in URL fragments, eliminating key storage on servers.
  - **P2P File Transfer**: Designed **WebRTC-based peer-to-peer file sharing** supporting **unlimited file sizes**, reducing server bandwidth usage by **90%**.
  - **Real-Time Systems**: Built Socket.io signaling for WebRTC offer/answer exchange, improving connection success rate across NATs by **85%**.
  - **Security UX**: Added self-destructing messages with view limits, cutting persistent data retention to **0%** after expiration.

- **API Automation & Backend Tools** *Node.js, ExpressJs, FastAPI, Docker, PostgreSQL, MongoDB*

  - **REST APIs**: Built robust REST APIs with authentication, rate limiting, validation, and modular controllers.
  - **Containerization**: Containerized backend systems with Docker Compose for development and deployment.
  - **Automation**: Created automation scripts for cron tasks, analytics processing, and internal tooling.

EXPERIENCE

- **Freelance Full-Stack & AI Developer** *May 2025 – Present*
  Independent *Remote*

  - **Full-Stack Development**: Delivered full-stack applications, portfolios, landing pages, and backend APIs for multiple clients.
  - **AI Integration**: Integrated AI powered functionalities including tone aware content generation and workflow automation.
  - **Backend Systems**: Built containerized backend environments with Docker and optimized database performance on Postgres and MongoDB.
  - **API Reliability**: Improved API reliability using rate limiters, middleware patterns, and production monitoring.

SKILLS

- **Languages**: JavaScript, TypeScript, Python, C, C++, SQL, HTML, CSS

- **Frameworks**: React, Next.js, FastAPI, Prisma, Node.js, Express, Tailwind

- **Developer Tools**: Git, Docker, Github, Neovim, tmux, VS Code, Zed, Bun, Postman

- **Databases**: PostgreSQL, MongoDB, Neon

- **Cloud**: AWS, Cloudflare, Vercel

EDUCATION

- **Muffakham Jah College of Engineering** Hyderabad, IN
  Bachelor of Engineering in Computer Science. GPA: 8 *Nov 2023 – Aug 2027*