Krishna Vishwakarma

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Professional Summary

MERN Stack Developer specializing in backend scalability and real-time Frontend UI/UX. Creator of 'AlgoMed' and 'CredFlow' with hands-on experience in AI model integration and secure authentication workflows. Actively seeking web development Internships.

Education

Delhi Technological University
Bachelor of Technology in Electronics & Communication Engineering 2023 – 2027

Projects

AlgoMed – Healthcare Telemedicine Platform Live | GitHub
Tech Stack: MERN, WebRTC, AI Chat

- **Real-Time Communication:** Built low-latency video calling and live chat features using Socket.io and WebRTC for a telemedicine application.
- **AI Integration:** Leveraged the Google Generative AI SDK to create features for medical report analysis and automated clinical documentation.
- **Backend Architecture:** Designed RESTful APIs with Node.js and Express, utilizing Mongoose for schema validation and Cloudinary for secure file storage.
- **Frontend Development:** Utilized React 19, Context API for state management, and React Router DOM v7 to build a seamless single-page application.

CredFlow – AI-Powered Invoice Financing Platform Live | GitHub
Tech Stack: MERN, OCR, AI APIs, Jest

- **Financial Logic:** Architected a backend system using Node.js and MongoDB that calculates financing limits up to 85% of invoice value based on real-time risk classification.
- **Security & Compliance:** Implemented JWT authentication and role-based workflows to ensure secure access to sensitive financial data and system-wide audit logs.
- **AI Implementation:** Leveraged Google Cloud Document AI to automate data entry, cross-verifying extracted invoice data against business profiles to reduce fraud.
- **System Reliability:** Focused on risk containment by mocking external services and writing rigorous tests for the invoice lifecycle flow.

CollabBoard – Real-Time Collaborative Whiteboard Live | GitHub
Tech Stack: React, Node.js, Socket.io, Canvas

- Engineered a real-time collaborative whiteboard using React, Node.js, Express, MongoDB, and Socket.io, enabling multi-user drawing, erasing, and live interaction with low-latency WebSocket synchronization.
- Implemented high-performance canvas rendering using the HTML5 Canvas API with optimistic UI updates and a client-side Undo/Redo history stack to ensure smooth 60 FPS interaction.
- Optimized network performance by implementing a 16ms event throttling/batching mechanism for drawing emissions, ensuring smooth 60fps synchronization while minimizing WebSocket traffic overhead.

Experience

Yuvaan – Literature & Film Fest, Delhi Technological University Delhi, India
Corporate Executive Sep 2024 – Present

- Executed deadline-driven event operations by managing task allocation, scheduling, and cross-team collaboration.

Technical Skills

Languages: Java, JavaScript
Frontend: React (v19), Vite, Tailwind CSS, HTML5, CSS3, Context API
Backend: Node.js, Express.js, REST APIs, WebSockets (Socket.io)
Databases: MongoDB, Mongoose
Cloud & AI: Google Cloud Document AI, Google Generative AI SDK, Cloudinary
Testing & Tools: Jest, Supertest, Git, GitHub, Postman, Render