

KRISH VISHWAKARMA

Software Engineer & AI Integration Specialist

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SUMMARY

AI Integration Specialist and Full-stack Developer with **4 years** of experience building complex **AI-powered projects** including Real-time **Call AI agents**, Real-time **Embedded chat agents**, AI tools, and **AI-based email campaigns**. Expert in developing very complex automations like **generating 25k+ reports with charts and graphs** through AI automation systems. Successfully launched 6 major projects utilizing full-stack skills in **Next.js**, Node.js, Express, **PostgreSQL**, Prisma, and advanced AI integrations. Passionate about building user-centric web applications with cutting-edge AI capabilities.

WORK EXPERIENCE

Senior Software Engineer, Articence Inc.

Aug 2024 - Present

VOIP & AI Integration Projects:

- Implemented complete **VOIP** integration for end-to-end call mechanism using **Asterisk, PBX, and RTP protocols** to handle 100+ concurrent calls
- Integrated advanced AI functionality where **AI listens** to caller speech and responds back over calls with complete end-to-end AI integration as an **AI assistant**
- Developed auto call transfer to human agents with comprehensive **dashboard** management system
- Built complete call mechanism architecture and AI integration framework

AI-Powered Communication Systems:

- Developed **AI Auto Call System** with support for AI-initiated **incoming** calls and scheduled AI **outgoing** calls, integrated into workflow automation
- Implemented SIP Audio Call Handling with **JsSIP** and **WebRTC**, developed multi-call session management improving reliability in concurrent call flows
- Built Chat system with AI + Human transfer capabilities and **embedded AI chatbots**
- Developed an Embeddable Chatbot Widget in React with real-time WebSocket integration using Socket.IO, supporting session-based dynamic channels

Full-Stack Development & AI Tools:

- Worked as both **React + Python developer**, contributed to implementing RAG (Retrieval-Augmented Generation) and AI tools
- Built a Modular Workflow System (React + **FastAPI**) supporting chat initiation, AI-to-human fallback, form capture, and post-interaction surveys via email

Full Stack Developer, Aadrika Enterprises

Nov 2023 - Aug 2024

MERN Stack Developer, TheCybertize

Oct 2022 - Nov 2023

- Developed a comprehensive admin portal for Express Tributes, sponsored by the Indian Express
- Achieved a 40% improvement in platform efficiency through UI and backend optimization
- Collaborated with cross-functional teams, enhancing project success rates by 10%

Full Stack Developer, Consainsights

Jan 2022 - Oct 2022

- Developed the website for Consainsights, including report development and bulk report generation
- Successfully generated 12,000+ reports, handling both frontend and backend development using Python and JavaScript
- Leveraged GPT API to generate over 12,000 reports in bulk, enhancing efficiency and scalability

SKILLS SUMMARY

Languages: Python, Typescript, Javascript, Java, Rust

Frameworks & Technologies:

- **AI & Integration:** GPT API, RAG Implementation, AI Agents, Real-time AI Processing
- **VOIP & Communication:** Asterisk, PBX, RTP, SIP, JsSIP, WebRTC, Socket.IO
- **Frontend:** Next.js, React.js, React Router, TailwindCSS, Redux, React-Query
- **Backend:** Node.js, Express, Django, FastAPI
- **Databases:** PostgreSQL, Prisma, Redis
- **Visualization:** Chart.js, ApexCharts, Three.js
- **Libraries & Tools:** React.js, Redux, React-Query, Chart.js, ApexCharts, Three.js, Redis, WebSocket, Socket.IO

AI Specializations:

- Real-time Call AI Agents
- Embedded Chat AI Agents
- AI-powered Email Campaigns
- Complex AI Automations
- RAG Implementation
- AI Tool Development

Soft Skills: Lead Developer, Project Management, Communication, Team Collaboration

PROJECTS

AI-Powered VOIP & Communication System | Articence Inc.

- Built complete VOIP integration handling 100+ concurrent calls using Asterisk, PBX, and RTP
- Implemented real-time AI agents that listen and respond to callers with natural language
- Developed AI-to-human transfer mechanisms with comprehensive dashboard
- Created embedded AI chatbots with real-time WebSocket integration

Consainsights (AI-Powered Report Generation Platform)

- Designed and implemented both frontend and backend of the Consainsights platform
- Leveraged GPT API to generate over 12,000+ reports in bulk with complex
- automation Developed AI automation systems for generating 25k+ reports with
- charts and graphs Created interactive data visualizations and robust CMS for content
- management Built complex AI-based email campaign systems integrated with report generation

Human Resource Management System (HRMS) | Aadrika Enterprises

- Managed HRMS module encompassing attendance, leave, payroll, and onboarding processes
- Implemented employee onboarding process using HRMS, reducing time-to-productivity by 20%
- Improved payroll accuracy by 95% through HRMS automation, reducing manual intervention by 80%