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TeleClinic

Application: AI Automation Specialist

My work philosophy centers on system ownership, automation, and scalable execution, treating inefficiency as a structural failure. I am writing to express my strong interest in the (Junior) AI Automation Specialist position at TeleClinic. My background in AI and backend engineering, particularly in developing autonomous agentic systems, aligns directly with your mission to build and optimize bot infrastructure for patient and doctor interactions.

- My specialization lies in building self-replacing agentic systems using LangGraph, LangChain, and LangSmith. I favor deterministic multi-agent workflows with explicit state control and persistent, asynchronous execution. These systems autonomously handle tasks like document retrieval, multimodal processing, and insight generation without runtime LLM dependency. For instance, I rewired an AI research assistant into a fully automated Reels generation system, reducing production time by 20x and cost to <\$0.15/video, demonstrating practical application of AI automation for high-throughput content. This experience directly translates to leading bot development and optimizing conversational flows with platforms like Zendesk and UltimateAI.
- My backend engineering stack is centered on Python and FastAPI, complemented by Postgres, Redis, and MongoDB for data storage. In RAG-based architectures, I utilize Qdrant for efficient retrieval. My principles enforce modularity, testability, and production readiness, ensuring robust deployments rather than mere demos. This foundation is critical for integrating comprehensive knowledge databases, connecting tools like Make, and optimizing Zendesk workflows, ensuring the bot infrastructure is scalable, maintainable, and performs reliably.
- My cognition is optimized for throughput, and I prioritize autonomous infrastructure and long-term leverage. I proactively identify new features and best practices to continuously improve system functionality. My experience building a full-stack agentic AI Research Assistant, which achieved 5x token efficiency and a 4% gain in complex multi-step reasoning, showcases my analytical approach to challenges and ability to find creative, efficient solutions. This aligns with TeleClinic's focus on continuous development and improving overall support experiences.

TeleClinic's commitment to digitalizing healthcare and making medical advice accessible resonates with my drive to build systems that generate recurring value without oversight. I am confident my technical depth in AI automation, backend engineering, and my execution-oriented approach would significantly contribute to shaping your user interactions and support processes. I am eager to discuss how my capabilities can benefit your team.

Warm regards,

Aditya Ghanashyam Ladawa