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CoachHub

Application: AI Engineer

My interest in the AI Engineer role at CoachHub stems from a shared commitment to scalable, impactful AI solutions. My work centers on building autonomous, production-ready systems, a philosophy aligning with CoachHub's mission to democratize coaching through technology. My expertise in agentic architectures and robust backend engineering is directly applicable to developing and expanding your AI-driven products.

- Architect and deploy self-replacing agentic systems, leveraging LangGraph, LangChain, and LangSmith for deterministic multi-agent workflows. This includes explicit state control, memory orchestration, and persistent, asynchronous execution, enabling autonomous document retrieval, multimodal processing, and insight generation. Real-world applications include a biomedical literature AI assistant, automating topic filtering and summarization, and an AI-powered Reels pipeline, autonomously scripting and publishing content, reducing production time by 20x.
- Backend engineering stack is anchored in Python and FastAPI, with PostgreSQL, Redis, and MongoDB for data persistence. For RAG architectures, Qdrant is utilized for vector storage, ensuring tight control over memory and pipeline flow. Principles enforce modularity, testability, and production readiness, focusing on robust deployments over demonstrations, reflecting a strong product mindset.
- Experience extends to integrating ML models (TensorFlow, PyTorch, scikit-learn) into end-to-end pipelines, avoiding black-box reliance. DevOps workflows include Docker for containerization, Git for version control, and CI/CD for deployment, with systems scaled via GCP for uptime guarantees and reproducible environments, demonstrating capability in building scalable infrastructure.
- Work philosophy prioritizes system ownership, automation, and scalable execution. Inefficiency is treated as a structural failure; if a system does not scale or generate recurring value without oversight, it is re-architected. This aligns with CoachHub's values of autonomy, proactiveness, and true ownership, ensuring high-quality, impactful contributions.

My approach to engineering, emphasizing autonomous infrastructure, long-term leverage, and absolute control over execution environments, positions me to contribute immediately to CoachHub's AI initiatives. I am prepared to apply my expertise in building durable, high-throughput systems to further develop your AI coaching solutions and spearhead greenfield projects.

Warm regards,

Aditya Ghanashyam Ladawa