Preston Jones

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SUMMARY

Applied AI Engineer specialized in architecting production-grade multi-agent orchestration systems with an emphasis on system reliability, automated evals, and autonomous recovery logic. Expertise in engineering high-performance Python backends and scalable agentic workflows across supply chain, energy trading, and enterprise-scale AI domains.

TECHNICAL SKILLS

Agents: Multi-agent orchestration (LangGraph, OpenAI Agents SDK, DeepAgents), tool calling, structured outputs, autonomous workflows with checkpointing & recovery logic, MCP integrations, system guardrails, OpenClaw
Observability/Evals: LLM-as-judge, Langfuse, regression detection, production monitoring
Quality & Testing: Black Duck, BlazeMeter, Locust performance testing
Models/Providers: OpenAI, Anthropic, Gemini, Azure OpenAI, Ollama
Backend: Python, Go, TypeScript, Java, FastAPI, Postgres, distributed systems architecture
Cloud/Data: Azure, AWS, Kubernetes, Docker, GitHub Actions CI/CD, Snowflake, Databricks, Spark/PySpark

PROFESSIONAL EXPERIENCE

BLUE YONDER **Dallas, TX**
Applied AI Engineer **Aug 2025 - Present**

- Engineered production-grade multi-agent planning assistant platform, extending agent orchestration and shared tooling architecture using FastAPI, FastMCP, and LangGraph.
- Architected and deployed Inventory Operations agentic system utilizing LangChain DeepAgents and OpenAI Responses API to automate supply-demand analysis and order-fill logic.
- Developed "Good News" agent with SPARQ over MCP, enabling autonomous tool calling and operational context retrieval without bespoke point-to-point integrations.
- Optimized Insights Summary agent and configuration layer to enhance system reliability and cross-environment deployment readiness.
- Led DeepAgents integration and enabled Kafka-based event-driven architecture to strengthen workflow reliability and scalability across production environments.

PCI ENERGY SOLUTIONS **Dallas, TX**
Backend Software Engineer **Aug 2024 - Jul 2025**

- Architected backend infrastructure processing 5M+ daily transactions across 30+ CAISO data streams to support real-time energy trading workflows.
- Maintained 99.99% uptime for mission-critical trading systems by implementing zero-downtime synchronization logic aligned with CAISO publication cycles.

VAST VERTEX (AI SAAS) **New York, NY**
Co-Founder & AI Engineer **Apr 2024 - Aug 2024**

- Engineered a multi-agent research-to-podcast platform, architecting end-to-end workflows for automated content extraction, script generation, and voice synthesis.
- Developed FastAPI backend and PDF parsing pipelines, implementing structured agent handoffs across OpenAI, Claude, Groq, and ElevenLabs.
- Facilitated successful acquisition outcome following technical demonstrations to Springer Nature and Wiley stakeholders.

UNIVERSITY OF OKLAHOMA – Gallogly College of Engineering **Norman, OK**
AI Research Engineer **May 2022 - May 2024**

- Architected biomedical data platform processing 1TB+ of drug-protein datasets via AWS S3, implementing entity extraction pipelines and high-performance searchable databases.
- Engineered NLP pipelines to ingest and analyze 1M+ PubMed Central publications for autonomous drug-protein interaction discovery.

EDUCATION

B.S. COMPUTER SCIENCE, University of Oklahoma
Honors: Cum Laude, Alpha Lambda Delta
Coursework: Data Structures & Algorithms, Distributed Systems, Artificial Intelligence, Adv. Machine Learning