

James Edward Tatman

Machine Learning and Agentic AI Systems Architect / Cloud and Infrastructure Architect

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SUMMARY

Master's-educated Machine Learning (ML) and Artificial Intelligence (AI) researcher and architect with 168+ published models and 97+ datasets on HuggingFace, and 23+ years of experience in cloud infrastructure, virtualization, and storage engineering. Experienced building agentic AI systems including multi-agent orchestration, Model Context Protocol (MCP) integrations, and Agentic Retrieval-Augmented Generation (RAG), in addition to scalable cloud infrastructure (NetApp, AWS, Kubernetes). Background includes disaster recovery, DevOps, and systems architecture leadership.

SKILLS

Agentic AI and Orchestration: Multi-agent systems, agent orchestration, planner/executor/critic workflows, Model Context Protocol (MCP) server development, context management, memory management, autonomous research pipelines, graph-based workflow orchestration, cost and latency optimization, model selection

AI and Machine Learning: PyTorch, TensorFlow, model fine-tuning, quantization, GGUF, LoRA, Unsloth, Reinforcement Learning (RL), Bayesian analysis, time-series forecasting, edge AI deployment, Retrieval-Augmented Generation (RAG), LangChain

Cloud and Infrastructure: Amazon Web Services (AWS), Google Cloud Platform (GCP), Microsoft Azure, Oracle Cloud, Kubernetes, Docker, VMware, NetApp SAN, NetApp NAS, EMC storage

DevOps: Ansible, CI/CD pipelines, continuous integration, continuous deployment, logging and alerting, Python, Bash, JavaScript scripting

Systems Administration: Linux, Ubuntu, Red Hat Enterprise Linux (RHEL), Windows, Solaris, AIX, HP-UX, disaster recovery, NetApp Snap Manager, Ops Manager, SnapMirror, SnapVault, EMC VMAX Replication

PROFESSIONAL EXPERIENCE

Technology Architect and Engineer, Tatman Technologies, Jan 2012 - Present

- Deliver AI/ML consulting for small and mid-size businesses (SMBs): train edge-optimized models, deploy time-series analytics, design Agentic RAG workflows
- Design and deploy multi-agent orchestration systems, including MCP-based tool servers, for automated research, content synthesis, and workflow automation
- Architect hybrid cloud storage (NetApp to AWS S3) and DevOps pipelines for logging and notification systems
- Refactor Python scripts for critical infrastructure; optimize I/O performance in distributed systems

Storage Engineer, Contracting for Odyssey Information Services, Dec 2010 - Jan 2012

- Managed 60+ NetApp and EMC storage arrays across development and production environments; designed multi-node Ops Manager monitoring
- Led data migration and orchestration for Oracle, SQL, and VMware workloads using Snap Manager

Senior UNIX and Storage Engineer, Sun America (AIG), Jul 2003 - Sep 2009

- Oversaw 9PB+ storage (NetApp, EMC DMX) and 250+ UNIX servers; standardized NetApp tools via Ops Manager
- Developed disaster recovery templates for Unix and NetApp storage, reducing recovery time by 40 percent

IS Manager, Knowledge Kids Network (Knowledge Universe), Aug 2000 - Jul 2003

- Directed IT operations including help desk, backups, and asset management; migrated physical ISP infrastructure between data centers in under 10 hours

EDUCATION

MS in Machine Learning, Colorado State University Global, 2025

BS in Computer Science and Information Technology, Colorado State University, 2022

OS Design, Denver Institute of Technology, 1999

PROJECTS

- HuggingFace Portfolio (huggingface.co/jtatman): 168 published models and 97 datasets, including fine-tuned large language models (Qwen, Llama, Phi) and GGUF quantized model conversions; affiliated with ZeroGPU Explorers, The Hydra Project, and M4-ai open-source machine learning collectives
- HegelianAI (github.com/jtatman): multi-agent large language model system applying a thesis, antithesis, synthesis pattern for iterative idea refinement
- grand-bible (github.com/jtatman): semantic and archetype correlation analysis across aggregated mythological and religious texts using embedding models
- skills-registry (github.com/jtatman): on-demand semantic-router skill loader for agent frameworks, reducing large language model context overhead
- socket-ai (github.com/jtatman): collaborative multi-agent large language model environment with real-time monitoring
- Weights and Biases experiment tracking (wandb.ai/jtatmanus): tracked fine-tuning runs for quantized small language models (Llama 3.2 1B, Phi-3.5 Instruct)