

JEREMY D. PRETTY

AI/ML Executive | Multi-Agent Systems Architect | Program Leadership

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EXECUTIVE SUMMARY

AI and ML executive with over 15 years of experience leading large-scale programs, architecting intelligent systems, and delivering mission-critical solutions across federal, gaming, and enterprise environments. Proven ability to build organizations, design scalable AI systems, and drive measurable operational improvements. Founder of TMFPRETTY, focused on multi-agent AI, AI safety, and autonomous systems.

CORE EXPERTISE

Artificial Intelligence and Machine Learning, Multi-Agent Systems, Computer Vision, NLP, Program and Project Management, Quality Assurance, Enterprise SaaS, AWS, DevOps, Data-Driven Decision Making, Academic Leadership

PROFESSIONAL EXPERIENCE

Founder and Chief AI Architect, TMFPRETTY, LLC, 2024 to Present

- Architected multi-agent AI operating system with governance, safety constraints, and workflow orchestration
- Developed AI pipelines supporting procedural generation, adaptive difficulty, and autonomous testing
- Built AI safety frameworks including ModelTripwire and Constrails
- Engineered enterprise SaaS platform integrating project management, QA, and analytics
- Developed 265+ runtime systems and automation tools supporting large-scale AI environments

Chief A.I. Officer, PMAT Inc., 2024 to Present

- Established and lead enterprise AI strategy and governance for a federal government contractor, creating the organization's AI Center of Excellence and responsible AI framework.
- Directed adoption of generative AI, machine learning, and intelligent automation technologies to improve operational efficiency, decision-making, and workforce productivity.
- Advised executive leadership on AI investments, emerging technologies, compliance requirements, and long-term digital transformation initiatives.
- Integrated AI capabilities into business development and customer solutions, strengthening competitive positioning and supporting organizational growth objectives.
- Former Director of Project Management and Quality Assurance
- Built and scaled QA and PM organizations supporting \$500M+ federal programs
- Implemented governance frameworks, compliance systems, and performance metrics
- Directed cross-functional teams and improved delivery visibility

Project Manager and Senior Test Lead, Blizzard Entertainment, 2021 to 2024

- Led QA initiatives across major titles including Diablo IV and Overwatch 2
- Developed NLP-based bug triage system improving accuracy by 75 percent
- Built computer vision anomaly detection system using OpenCV and TensorFlow

Senior Technical Program Manager, U.S. Air Force Civil Service, 2019 to 2021

- Led AWS GovCloud migration of mission-critical systems
- Managed \$38M contract and achieved \$500K annual cost savings
- Delivered strategic planning and reporting to leadership

Additional Roles: CDO Technologies, BTAS, P3I Inc., Northrop Grumman, United States Air Force

AI AND RESEARCH CONTRIBUTIONS

Extensive work in multi-agent systems, AI safety, computer vision, NLP, and autonomous systems. Focused on real-world deployment, reliability, and human-in-the-loop oversight.

ACADEMIC EXPERIENCE

Adjunct Professor and Doctoral Chair across multiple universities teaching AI, ML, computer vision, statistics, and project management. Recipient of Distinguished Online Teaching and Outstanding Educator awards.

Southern New Hampshire University, University of Arizona Global Campus, Grand Canyon University, University of Maryland Global Campus, Capitol Technology University

EDUCATION

PhD, Product Management

MS, Artificial Intelligence and Machine Learning

MS, Project Management

MBA

Capitol Technology University

Colorado State University – Global Campus

Embry-Riddle Aeronautical University

East Texas A&M

CERTIFICATIONS

PMP, PMI-ACP, PMI-SP, ISTQB-CTFL, CTAL-TM

SELECT PUBLICATIONS

Human Factors in Satellite Operations, 2021

Fume Hood Containment Performance, 2022

Attention and Fatigue in Space Operations, 2022

Automation and Alarm Management, 2023