Luke Profio
MSc, MBA, PMP, CSM, CSPO

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Hands-on **AI/ML Product Leader** who ships production AI/ML systems that solve real-world problems at scale.   Currently at UT-Austin I own vision and roadmap for a multi-stage pediatric brain-cancer detection platform that ingests whole-slide images, predicts 8+ biomarkers, and delivers >95% diagnostic accuracy (AUC 0.97) while cutting inference time from 18 minutes to under 3 minutes per slide.   At UW Health I launched three Azure OpenAI agents on Epic EHR now used daily by thousands of clinicians, achieving >90% auto-accept rates and reclaiming >42,000 hours of clinician time in the first year.   At Workday I shaped the global AI roadmap for 70M+ users by identifying 8 strategic partnerships and driving cross-functional research that accelerated public commitments.   Earlier I doubled retention and GMV as a Technical Product Manager of CODAworx's creator marketplace and co-led regenerative cardiac tissue programs at UW-Madison that produced an American Heart Association-cited publication. I combine deep technical expertise with relentless user focus and cross-functional leadership to turn complex, regulated domains into products that people adopt, love, and trust.   My superpower is translating AI systems into tangible impact, while helping others along the way.

Product Management | Artificial Intelligence | User Experience | Software Engineering

The Massachusetts Institute of Technology, CTO Professional Program
Carnegie Mellon University, Master of Business Administration (MBA), Management Science
The University of Texas at Austin, Master of Science (MSc), Artificial Intelligence
The University of Colorado, Boulder, Master of Science (MSc), Computational Data Science
The University of Wisconsin, Madison, Bachelor of Science (BSc), Genetics

PROFESSIONAL EXPERIENCE:

Technical Product Manager & Researcher, AI/ML
The University of Texas at Austin
2025 – Present
- Own product vision and roadmap for a multi-stage deep-learning pipeline that processes whole-slide pathology images, predicts 8+ molecular biomarkers, and delivers >95% accurate pediatric brain tumor diagnosis and subtyping across several major cancer types.
- Lead 4 software engineers to ship sequential production-grade models (tile extractor, patch classifier, slide aggregator, biomarker regressor), cutting end-to-end inference time from 18 minutes to under 3 minutes per slide while boosting AUC from 0.89 to 0.97.
- Established weekly clinician feedback loops with pathologists, driving 6 major iteration cycles that reduced critical false-negative rates by 68% and achieved 92% oncologist-reported trust score.
- Translated complex neuropathology requirements into PRDs and acceptance criteria; aligned pediatric pathologists and engineering stakeholders, positioning the product for IRB approval and future clinical trial integration.

Consulting Technical Product Manager, AI/ML (MBA Capstone)
Workday
2024 – 2025
- Shaped Workday's global AI/ML product strategy by identifying and prioritizing high-impact solutions that reduced cost, lowered enterprise risk, and improved UX for 70M+ end users worldwide.

- Built and delivered a comprehensive market map of 50+ AI vendors; surfaced 8 strategic partnerships that aligned directly with Workday's platform goals and unlocked multi-year co-development opportunities.
- Led a 6-month cross-functional research initiative with design, engineering, and exec leadership; drove iterative prioritization, synthesized insights into executive artifacts, and presented recommendations to customers and internal stakeholders, substantially increasing buy-in and accelerating Workday's public AI roadmap.

Senior Technical Product Manager, AI/ML
UW Health Medical System
2023 – 2025
- Owned and shipped a 50+ use-case GenAI roadmap on Epic EHR; successfully launched three production Azure OpenAI agents (medication reconciliation summaries, discharge instructions, patient message triage) now embedded in daily workflows of thousands of clinicians across the health system.
- Achieved sustained >90% auto-accept rates and saved >42,000 clinician hours in the first year alone by automating repetitive, high-volume, low-risk documentation tasks that previously consumed up to 40% of nursing shift time.
- Built and productionized a real-time Databricks feedback pipeline that ingested usage telemetry and qualitative signals, cutting iteration cycles from months to days and directly supplying continuous prompt, retrieval, and UX optimization.
- Led technical integrations of GenAI agents with Epic, Best Buy Health RPM, and UiPath RPA platforms while implementing rigorous regulatory compliance and guardrails.

Technical Product Manager
CODAworx
2021 – 2023
- Owned full product lifecycle for a two-sided eCommerce marketplace connecting artists with commissioners and buyers; led an 8-person cross-functional team from vision through scaled revenue growth.
- Doubled customer retention by designing and shipping self-service onboarding, in-app guidance, and personalized outreach flows informed by cohort analysis and NPS feedback.
- Redesigned core inventory, RFP, and transaction workflows using A/B testing and real-time analytics; reduced fulfillment tension by 40%+ and drove material GMV uplift.
- Established product-led growth discipline (analytics instrumentation, funnel optimization, experimentation cadence) that solidified CODAworx as the category-leading platform for public art commissions.

Technical Product Manager & Researcher
UW-Madison School of Medicine and Public Health
2016 – 2021
- Owned product strategy and roadmap for regenerative cardiac tissue therapies; defined clinical success metrics and prioritized features that turned research breakthroughs into pre-clinical assets ready for FDA pathway and commercialization.
- Shipped data and analytics products (custom Python/R, instrumentation pipelines) that cut experimental processing time 63%, boosted reproducibility scores 41%, and became the standard workflow cited by the American Heart Association and 30+ institutions.
- Led discovery with cardiologists and heart-failure patients; translated unmet needs into prioritized requirements that increased therapeutic efficacy 2.4× in pre-clinical models.
- Built a go-to-market narrative, setting the stage for grant and industry funding by linking technical milestones directly to patient outcomes and an $800M+ addressable market

Non-Technical Skills: Portfolio Management, Program Management, Product Management, Project Management, Communication, User Experience (UX), Competitive Analysis, Product Strategy, Market Research, Product Launch, Product Vision, Cross-Functional Team Leadership, Business Analytics, OKRs, KPIs, Go-to-Market

Technical Skills: Python, R, AI/ML, Data Engineering, SQL, APIs, Keras, TensorFlow, PyTorch, NLP, REST Integrations

Tools: Jira, Confluence, Tableau, Databricks, Microsoft Azure, Google Cloud, AWS, Figma, Power BI, Tableau

Volunteering: U.S. Technology Policy Committee Member at the Association for Computing Machinery; Founder of AI@CMU; Eagle Scout; Volunteer at UW Health; Volunteer at the National Alliance on Mental Illness; Member of the OpenAI Forum

Certifications: Certified Scrum Product Owner (CSPO), Project Management Professional (PMP), Agile Certified Practitioner (ACP), Certified Scrum Master (CSM), Carnegie Mellon University Software Engineering Certificate, UW-Madison Regenerative Medicine Certificate

Awards: The Massachusetts Institute of Technology Academic Merit Scholarship; Carnegie Mellon University David A. Tepper Academic Merit Scholarship, UT-Austin Academic Merit Scholarship, UC-Boulder Academic Merit Scholarship, Albert J. & Adelaide E. Riker Academic Merit Scholarship, Sprint Forward Academic Merit Scholarship, William F. Vilas Academic Merit Scholarship, Qualtrics Academic Merit Scholarship, Distinctive Scholastic Achievement, Dean's List, Wisconsin Music Teacher's Association Exemplary Soloist & 1st Place, National Federation of Music Clubs Exemplary Soloist & 1st Place, Milwaukee Music Teacher's Association 1st Place, Wisconsin State Music Association 1st Place

Organizations: CMU Tech & Entrepreneurship, Carnegie Mellon University Alumni Association, National Eagle Scout Association, Product @ CMU, Project Management Institute, Scrum Alliance, Wisconsin Alumni Association

Languages: English (Native), Italian (Elementary), Latin (Elementary)

Hobbies: Biking, Hiking, Reading, Video Games, Travelling

References and additional information available upon request.