Luke Profio
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Hands-on **AI/ML Product Leader** who ships production AI/ML systems that solve real-world problems at scale. At Aurifex Sciences I built and launched a multi-omics analysis platform with 6+ advanced tools across genomic, transcriptomic, proteomic, epigenomic, single-cell, and metabolomic workflows, growing the user base 20-25% month-over-month with 70% three-month retention while securing 1.5-2M in pre-seed and seed funding and delivering 100% of core features on schedule. 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

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:

Chief Executive Officer & Founder
Aurifex Sciences
2023 – Present
- Led product development from zero to launch, shipping 6+ advanced analysis tools across multi -omics workflows with 100 percent of core features delivered on schedule and an average feature cycle time under three weeks.
- Grew the user base by roughly 20 to 25 percent month over month in the early stage, while maintaining about 70 percent three month retention through rapid, feedback driven iteration.
- Secured approximately 1.5 to 2 million dollars in pre seed and seed funding, translating deep technical work in genomics and AI into clear business value and landing several strategic pilot and design partner relationships.
- Built and managed a cross-functional team of 4 to 6 engineers and designers, implementing lightweight processes that cut average time to ship new features by about 40 percent and reduced production level bugs by around 30 percent.
- Used product analytics, experiment results, and direct customer interviews to prioritize the roadmap, driving roughly 35 percent improvement in key engagement metrics and reducing early churn by about 20 percent.

Senior Technical Product Manager & Researcher, AI/ML (Part-Time)
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.

Co-Founder of CODAmarket
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.

Chief Technology Officer & Founder
Gallify
2016 – 2023
- Built core AR/VR features using Solidity smart contracts, Apple ARKit, and Object Capture, shipping 3+ major releases that enabled NFT marketplace transactions and immersive gallery experiences for iOS users.
- Led a team of 8–10 engineers across 4 sub-teams and 6 concurrent projects, establishing sprint cadences and one-on-ones that improved on-time delivery from roughly 60% to 85% and reduced average bug resolution time by about 35%.
- Served as Scrum Master and primary technical decision maker, setting product priorities and engineering standards that increased team velocity by roughly 30% while keeping scope and budget within 10% of projections.
- Owned full cycle hiring from sourcing to onboarding, growing the engineering team from 3 to 10+ engineers and reducing time to productivity for new hires by about 25% through structured onboarding and documentation.
- Managed engineering deliverables across time, scope, and cost, delivering all 6 active projects on schedule with an average variance of under 8% from initial estimates while maintaining quality standards that kept production incidents below 2% of deployments.

Technical Product Manager & Researcher (Part-Time)
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.

<u>*Non-Technical Skills:*</u> *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*

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

<u>*Tools:*</u> *Jira, Confluence, Tableau, Databricks, Microsoft Azure, Google Cloud, AWS, Figma, Power BI, Tableau*

<u>*Volunteering:*</u> *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*

<u>*Certifications:*</u> *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*

<u>*Awards:*</u> *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*

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

<u>*Languages:*</u> *English (Native), Italian (Elementary), Latin (Elementary)*

<u>*Hobbies:*</u> *Biking, Hiking, Reading, Video Games, Travelling*

References and additional information available upon request.