LAUREN GRANT

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PMP | CSM | AWS Solutions Architect (In Progress) | PhD

PROFESSIONAL SUMMARY

Technical Program Manager with 3+ years leading complex technical programs and 7+ years managing cross-functional initiatives. Built 4 production ML/analytics platforms from 0⟶1 in 2 years (combined $4M budget), reducing development cycle time 30% and enabling 4 downstream teams. Expert in end-to-end platform delivery, ML productization, and cross-org stakeholder alignment. Strong technical background in real-time systems, data architecture, and statistical modeling. PMP & CSM certified with PhD in Cognitive Neuroscience.

Core Competencies: 0⟶1 Platform Development • End-to-End Program Delivery • ML Productization • Cross-Functional Team Leadership • Agile/Scrum • Stakeholder Management • Technical Roadmapping • Risk Mitigation • Budget Management • Metrics-Driven Decision Making

PROFESSIONAL EXPERIENCE

Technical Program Manager | DCS Corporation, Detroit, MI | *Mar 2023 – Present*

Systems Engineer (Mar 2023 – Jan 2024) → Senior Technical Program Manager (Feb 2024 – Present)

Promoted to Senior TPM after successfully launching systems integration laboratory and establishing platform architecture

- Delivered 4 production ML/analytics platforms from 0⟶1 (combined $4M budget) in 2 years, reducing development cycle time 30% and enabling 4 cross-functional teams to execute all evaluation programs. Platforms mandated as reusable architecture standard across 3 organizations.
- Led end-to-end real-time analytics platform as single-threaded owner, building Kafka-based infrastructure (7 pipelines, 40 topics, millisecond-latency). Resolved critical 3-org architectural conflict through stakeholder alignment, unblocking deployment and enabling 4 evaluation events.
- Scaled ML inference platform from failed prototype to production supporting 18 camera streams at 40 FPS (<70ms latency), managing 10-14 engineers through Agile delivery. Drove Python⟶C++ migration, improving accuracy 30%⟶75% and throughput 2×.
- Owned voice AI assistant platform through product lifecycle (transcription⟶voice command⟶AI assistant phases). Established <300ms latency and 75%+ accuracy gates, validated with 21 users. Terminated misaligned vendor after 6 months to protect platform integrity.
- Mentored data scientist to full independence through 3-month training program. Authored 7 technical reports presented to executive stakeholders and GVSETS conference. Led demos generating partnerships with 4 universities and 1 defense contractor.

Key Achievements as Systems Engineer (Mar 2023 – Jan 2024):

- Led laboratory development from concept to launch in 5 months after 2 previous failed attempts, managing 10-14 engineers. Reduced experiment cycle time 50% (6 months⟶3 months), expanding support from 1 to 3 government experiments and securing additional funding. Authored winning $300K proposal.

Postdoctoral Research Fellow | Washington University in St. Louis, MO | *July 2021 – Mar 2023*

- Managed cognitive research program coordinating 7-person cross-functional team across 3 hospital sites ($1M budget). Built statistical analysis pipeline using advanced modeling (linear mixed effects, Bayesian inference) for 100+ participant datasets. Secured NIH funding and pivoted to remote data collection during COVID-19.

Graduate Researcher & Program Lead | University of Michigan, Ann Arbor | *2015 – 2021*

- Led multi-institutional medical device program coordinating cross-functional teams across hospitals, universities, and IT departments. Delivered cognitive assessment platform deployed in multiple hospitals nationwide for intraoperative brain mapping, managing full product lifecycle from usability testing through 2-year longitudinal validation.

- Programmed emergency platform migration to cloud in 3-week sprint during COVID-19, developing full-stack web applications (Python, JavaScript, HTML, CSS) enabling continuity for critical patient testing. Delivered 10+ remote studies and enabled 2 international research collaborations.
- Secured $100K NSF funding and independently managed 6-year research program. Published 8 peer-reviewed articles, developed data analysis pipelines (ANOVA, regression, multivariate techniques), and presented findings at national conferences.

TECHNICAL SKILLS

Technical: Python, C++, C#, JavaScript, HTML/CSS, MATLAB, R, SQL | YOLO, OpenCV, TensorFlow, PyTorch, Scikit-Learn | Apache Kafka, PostgreSQL, ETL | AWS, Cloud Architecture | Real-time systems, Multi-GPU optimization

Platform & ML Product: 0→1 platform development, End-to-end product lifecycle, ML productization, Model optimization, Client-server architecture, Performance tuning, Real-time inference, Statistical modeling (LME, Bayesian), Data architecture

Program Management: Agile/Scrum (2-week sprints), Cross-functional team leadership, Stakeholder management, Roadmapping, Risk mitigation, Vendor management, Budget oversight ($1M-$4M), Metrics-driven execution, OKRs/KPIs, Executive communication

EDUCATION & CERTIFICATIONS

PhD, Cognitive Neuroscience | University of Michigan | 2021

Project Management Professional (PMP) | PMI, Jan 2026 • **Certified ScrumMaster (CSM)** | Scrum Alliance, Nov 2025 • **AWS Solutions Architect** | In Progress, Expected May 2026