

James (Jake) Truckle

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SUMMARY

Staff Technical Program Manager with 10+ years shipping complex, safety-critical software at Waymo, Uber ATG, and Microsoft. I lead large cross-functional programs (140+ engineers, 10+ departments) through ambiguous, long-tail technical problems — pairing deep CS fundamentals with product judgment, data analytics, and a human-centered systems lens. Patent-holding engineer, MBA in data analytics, and current Georgia Tech M.S. CS student specializing in HCI, ML, and Robotics.

EXPERIENCE

Waymo Pittsburgh, PA

Nov 2020 – Present

Staff Technical Program Manager — Developer Experience (DevX) & DevAI Platform

- **Helped scale Waymo's DevAI adoption program** — partnered with SWE teams to evaluate AI coding tools, improve onboarding, and identify practical workflows where AI assistance could reduce engineering toil.
- **Managed DevX Critical Journeys workstreams** focused on simulation and evaluation workflows, using developer feedback and workflow data to prioritize improvements in usability, reliability, and compute efficiency.
- **Designed and launched "Waymo Clusters"**, a centralized platform for tracking long-running engineering problem areas — replacing fragmented legacy tracking processes with a shared workflow for ownership, status, and reporting.
- **Built the underlying schema, SQL logic, and dashboards** for Waymo Clusters, giving cluster leads and cross-functional stakeholders clearer visibility into active problem areas and triage progress.
- **Created the Continuous Triage Strategy and PDRM framework** to standardize how critical events are reviewed, routed, and followed up across engineering teams.
- **Supported migration of critical-event triage workflows** away from manual spreadsheets toward structured dashboards and automated routing, reducing coordination overhead for engineering triagers.

Senior Technical Program Manager — Vulnerable Road User (VRU) Safety Portfolio

- **96% reduction in VRU Incidents Per Billion Miles** — program-managed the safety-feature roadmap that surpassed human safety benchmarks and unlocked commercial mileage and geographic expansion.
- **Orchestrated the VRU portfolio across 7 vertical/horizontal engineering teams** (Planner Reasoning, Perception Semantics, Behavior Prediction); defined standard execution practices for 140+ engineers across 10+ departments.
- **Founded the Escalated Issues Working Group**, retiring 13 long-tail show-stoppers (prone pedestrians, kids, steam/dust particulates) and coordinating data-collection campaigns that eliminated driverless Disengage Zones in San Francisco.
- Led operational readiness and real-time safety tracking for high-visibility driverless rollouts (e.g., SF Halloween), coordinating across Engineering, Operations, Safety, Product, and Legal.

Uber ATG Pittsburgh, PA

Feb 2019 – Nov 2020

Technical Program Manager II — Autonomy Features & Safety Validation

- Directed cross-functional research programs in Machine Learning, Computer Vision, and Motion Planning to accelerate next-generation autonomy stacks.
- Program-managed vehicle software release cycles — track validation, closed-loop simulation, and safety driver testing — to guarantee regression-free releases.
- Defined system requirements, roadmap, and verification criteria for the "No Vehicle Operator" fully driverless passenger-carrying pilot program.
- Orchestrated end-to-end operational readiness and live software performance for high-profile investor and partner demonstrations in Pittsburgh and San Francisco.

Microsoft Redmond, WA

June 2016 – Feb 2019

Product Manager II — Windows Energy & System Performance

- Led the Windows Energy Efficiency Team, shipping core power management features (Modern Standby, Adaptive Hibernation, Software-Defined Battery, Power UX) across millions of Windows devices.

- Designed and deployed OS-level diagnostics, real-time telemetry pipelines, and optimization metrics to monitor and improve system health at scale.
- Co-engineered driver- and silicon-level energy optimizations through partnerships with Intel, AMD, and Qualcomm.
- **Issued patent — US 10,394,301:** real-time hardware energy attribution model for per-screen and per-session power consumption profiling (Aug 2019).
- Earlier: Program Manager Intern (2015) prototyping user-prediction-based hibernate features.

EDUCATION

- **M.S. in Computer Science** — Georgia Institute of Technology · Expected 2027. Specialization: HCI, Machine Learning, Robotics.
- **M.B.A., Data Analytics** — University of Maryland, Smith School of Business · 2018.
- **B.S. in Computer Science** — University of Maryland · 2015.
- **B.S. in Psychology** — University of Maryland · 2015.

CERTIFICATIONS

- Human-Computer Interaction for UX Design — MIT · 2020
- Leadership & Culture — Harvard Business School Executive Education · 2019

SKILLS

Program & Product Leadership: Cross-functional roadmapping, OKR design, executive communication, ambiguous-problem decomposition, operational readiness, launch management.

Autonomy & Robotics: AV architecture, motion planning, perception/sensor fusion, simulation & validation pipelines, closed-loop testing, ODD, safety-case design.

Developer Platforms & Systems: DevX tooling, telemetry & data pipelines, internal platform design, Taskflow, Jira/Buganizer, Git/Piper, Agile/Scrum, AI-assisted developer workflows.

Data & Analytics: SQL, PLX (GoogleSQL/BigQuery), dashboarding, telemetry analysis, A/B and metric design.

Programming: C/C++, C#, Java, Ruby, JavaScript, HTML/CSS, SQL, R.

Patents: US 10,394,301 — Per-Screen/Session Power Consumption Profiling (2019).