

MOHAMMAD DARAGHMEH

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Senior Technical Program Manager specializing in AI/ML and Big Data infrastructure, with a decade building and shipping software at scale. Delivered over **\$125 million** in infrastructure savings. Shipped new platform capabilities end to end, from managed streaming services and storage optimization to GDPR compliance releases serving regulated workloads on three continents. Partnered with flagship customers including Siri, Search, and Maps for Apple's central AI/ML platform, and Xbox and Windows for Microsoft's largest internal big data infrastructure. Executed zero-downtime platform migrations at scale, the largest being a year-long move of **15,000 instances** to AWS with full data integrity and feature parity, spanning every organization on Apple's AI/ML platform. I bring clarity to complex systems, aligning cross-functional teams to deliver infrastructure that scales without friction and operates without waste.

PROFESSIONAL SKILLS

EDUCATION

Rochester Institute of Technology • B.S. Computer Engineering • 2017

DOMAIN EXPERTISE

• AI/ML Platforms • Capacity & Compute Economics • Data Compliance & Governance • Distributed Data Infrastructure • Enterprise Streaming Systems • Platform Migration • Pipeline Modernization

LEADERSHIP

• Enterprise Program Ownership • Executive Alignment • Resource Optimization • Risk Management • Technical Roadmapping

TECHNICAL SKILLS

AI & DATA INFRASTRUCTURE

• Airflow • Databricks • Flink • Hadoop • Iceberg • Kafka • Kubeflow • MongoDB • Ollama • Ray • Spark • Trino • vLLM

LANGUAGES

• C# • Go • Java • Objective-C • Python • Scala • SCOPE • SQL • Swift • TypeScript

PLATFORM OPERATIONS

• AWS • Azure • Datadog • Docker • GCP • Helm • Kubernetes • Terraform

EMPLOYMENT

DARAGHMEH DIGITAL LLC • *Founder & Technical Consultant*

July 2024 - Present • Seattle, WA

Side Venture: Independent practice delivering digital infrastructure and e-commerce growth for clients across America. Repositioned in 2024 to AI consulting

• Serve as the technical counterpart for businesses from initial AI strategy to live deployment, cutting through vendor noise to match models to real requirements, shape product roadmaps, and bring my enterprise discipline to capacity planning, unit costs, and operational readiness

APPLE • *Senior Engineering Program Manager, AI/ML Platform*

Sept. 2022 - Apr. 2024 • Seattle, WA

Core Achievement: Launched Kafka as a Service, the platform's first managed streaming tier, after identifying the gap and winning a Director-level mandate to build inside Apple's largest AI/ML data platform, owning instance strategy, tiered storage, and onboarding path, cutting compute cost **70%** and storage cost **40%** for over **\$25 million** in savings

• Onboarded **10+** first-party product teams such as IS&T, Maps, Search, Siri onto new offerings within Apple AI/ML Data Platform, negotiating requirements, migrations, and sequencing cross-organizations with competing roadmaps and interests

• Led a 4-quarter migration of **15,000 instances** to AWS spanning every dependent partner team, owning risk, dependency, and rollback planning to land zero downtime with full data integrity and feature parity. Over **\$30 million** saved, and licensing dependencies were removed from the platform's critical path

• Directed a team of engineers through 3-quarters of decommissioning and re-architecture of a cross-organizational data pipeline, cutting operating cost and simplifying downstream deployment to be cloud agnostic without refactoring required from partner teams

MICROSOFT • *Technical Program Manager II, Big Data Platform*

Apr. 2020 - Sept. 2022 • Redmond, WA

Core Achievement: Delivered **4** feature releases for Cosmos, Microsoft's largest internal big data engine, and its SCOPE query language, cutting CPU processing time **25%** and storage cost **50%**, and adding support for compressed formats including ORC, Parquet, and SQL Tables

• Shipped an ML-based capacity forecasting and alerting system predicting storage and compute shortfalls years ahead of exhaustion, avoiding **\$20 million** in storage cost and averting **2** mass CPU failures in its first year of deployment

• Cleared the regulatory path for Microsoft's largest internal data platform through **6** feature production releases, from GDPR annotation support to .NET Core runtime compatibility, keeping sovereign workloads live across Asia, Europe, and the Americas with zero downtime

MICROSOFT • *Technical Program Manager I, Big Data Platform*

Feb. 2018 - Apr. 2020 • Redmond, WA

Core Achievement: Drove company-wide infrastructure programs totaling over **\$50 million** in savings across storage optimization, systems monitoring, and a new on-demand token model for Microsoft's largest internal big data engine, Cosmos, and proprietary language SCOPE

• Consolidated a decade of fragmented SCOPE documentation and training into a single digital hub serving **50K+** active users, and built the storage/compute dashboards whose insight steered the global rollout of GDPR compliance data centers across Eastern Europe and China

RECOGNITION

MICROSOFT GLOBAL HACKATHON • *Top 5 Winners Worldwide*

• **MOVEMENT** (2021): A real-time computer vision and ML form analysis engine for everyday activity using basic smartphone cameras. Presented to Satya Nadella's executive team, securing a prototype development grant

• **NLP + SCOPE** (2019): A natural-language prompt engine for text-to-code synthesis to easily compile SCOPE language analytics scripts and dashboards; years before LLMs made it ordinary

PATENT • *U.S. 10,956,925 B1*

• **Method and System for Performing Transactions Using Aggregate Payment Media**, Intuit Inc., granted March 2021. Co-inventor of an ML system that predicts repayment probability from historical account data and automatically routes each transaction in real-time to the highest-yield payment method