

# MOHAMMAD DARAGHMEH

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## EDUCATION

### ROCHESTER INSTITUTE OF TECHNOLOGY

Bachelor of Science • Computer Engineering • 2017 • GPA 3.55

### CORE STRENGTHS

Technical Program Management • End-to-End Strategy & Roadmapping  
• Platform Quality & Risk Governance • Cross-Functional Leadership  
• Executive Communication • Enterprise AIML & Data Architecture

## SKILLS

**DATA ENGINEERING:** Airflow • Databricks • Flink • Hadoop • Iceberg • Kafka  
• MongoDB • Power BI • Spark • Tableau • Trino

**PROGRAMMING LANGUAGES:** #C • .NET • HCS12 Assembly • Java  
• Objective C • Python • Scala • SCOPE • SQL • Swift • VHDL/Verilog

**ECOSYSTEMS:** Adobe Creative Suite • AWS • Azure • Confluence • Git • Jira  
• Kubernetes • Microsoft Office Suite • Radar • Visual Studio

## EMPLOYMENT

### APPLE • Senior Engineering Program Manager, AIML Platform

Sept. 2022 - Apr. 2024 • Seattle, WA

**Core Achievement:** Championed the creation and customer acquisition for **Kafka as a Service** within Apple's largest AIML platform, totaling a savings of over **\$25 million** (70% in compute cost & 40% in storage cost) through tailored instance types, Tiered Storage support, and LDSP simplification

- Cultivated strategic partnerships with over **10** major product teams, including **Siri**, **Search**, and **Maps**, to integrate them into the AIML Data Platform, significantly enhancing platform engagement and user capabilities
- Shepherded an extensive nationwide migration spanning **4 quarters** with numerous partners, managing all project risks to ensure data integrity and zero downtime for the transition of **15,000 instances** to AWS. Totalling a saving of over **\$30 million** and securing licensing freedom
- Led a dedicated team of engineers for **3 quarters** in the decommissioning of a pivotal cross-organizational data pipeline as well as its complete re-architecture to support a new scalable cloud-agnostic framework, reducing operational costs and simplifying future deployments

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

Apr. 2020 - Sept. 2022 • Redmond, WA

**Core Achievement:** Led **4 feature releases** for Microsoft's big data engine Cosmos & its language SCOPE that brought tremendous value from **25%** reduction in CPU process time, **50%** reduction in storage cost, and support for dynamic compressed data formats like ORC, SQL Tables & Parquet

- Drove the implementation of a machine learning reporting system designed to predict and alert for big data storage & processing shortages years in advance. Under my leadership, this initiative saved Microsoft **\$20 million** in storage costs and averted **2 mass CPU failures** in the first year of deployment
- Shipped **6 minor features** to enhance compliance and expand compatibility for the SCOPE language, including GDPR-compliant Annotations & .NET Core

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

Feb. 2018 - Apr. 2020 • Redmond, WA

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

- Transformed a decade's worth of SCOPE language documentation & training courses into a centralized digital hub boasting an active user base of **50K+**
- Researched and led the creation of multiple streamlined dashboards for big data storage and computation metrics; this deep insight steered our global rollout of GDPR compliance data centers in both Eastern Europe and China

### ROCHESTER INSTITUTE OF TECHNOLOGY • Web Developer & Social Media Analyst

Aug. 2014 - June 2017 • Rochester, NY

**Core Achievement:** Built an engaged online community across Facebook, Reddit, & Twitter with unique content creation gaining over **10K+** followers

- Sole developer of front-end/back-end implementation for two major facilities, RIT Simone Center and RIT F&A
- Oversaw all web and social presence for RIT's Simone Center and F&A facilities, managing daily functionality, platform security, and uptime

## HACKATHONS

Participated in **Microsoft Global 19/20/21**, **BrickHack 15/16/17**, **HackNJIT 15**, **HackRPI 15**, & **RocHack 14**

### MICROSOFT GLOBAL HACKATHON 2021 - TOP 5 WINNER

Project **MOVEMENT** offered an affordable, personalized way to improve form and motion for activities like physical therapy, dance, and weightlifting. My team commercialized cutting-edge technology, including a trained ML model, cloud-enabled frame by-frame comparison, and an interactive suggestion engine. I was invited to present this solution to Satya's leadership, earning our team a private grant to develop a complete prototype

### MICROSOFT GLOBAL HACKATHON 2019 - TOP 5 WINNER

Project **NLP + SCOPE** leveraged Natural Language Processing to empower non-technical users to perform real-time data analytics without the need to write any explicit code. Aligned with Microsoft and OpenAI's vision, our award-winning hack served to generate functional scripts and dashboards for analytical insight simply by entering a worded prompt

## COMMUNITY WORK

### WASHINGTON TRAIL ASSOCIATION • Volunteer

Actively involved in maintaining trails and aiding in tree nursery consultation

Washington

### MAPS • Teacher/Mentor

Taught multiple classes (Robotics, SAT Math, & 3D Printing) to students ranging from 7-14 years old

Redmond, WA

### BARAKAH CHARITY • Founding Member/Event Coordinator/Web Master

Co-founded a non-profit organization dedicated to assisting those in need through food drives and housing support

New York