

# MOHAMMAD DARAGHMEH

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## EDUCATION

### Rochester Institute of Technology

Bachelor of Science • Computer Engineering • 2017

GPA: 3.55

### Academies @ Englewood

Highschool • Pre-Engineering • 2012

GPA: 3.85

## SKILLS

**DATA ENGINEERING:** Airflow, Flink, Hadoop, Iceberg, Kafka, MongoDB, Spark, Tableau

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

**SOFTWARE:** Adobe Suite, AutoCAD, Git, Matlab, Microsoft Office Suite, MicroStation, PSpice, PyCharm, 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 LDCP 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 to transition **15,000 instances** to AWS, totaling 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 cloud-agnostic framework with advance logging capabilities

### 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 for over **9K+** followers

- Sole developer of front-end/back-end implementation for two major facilities, RIT Simone Center and RIT F&A
- Managed & maintained various online and social platforms for functionality, 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 and personalized way for anyone to improve form and motion for activities such as physical therapy, CPR certification, dance, weightlifting, even proper posture. 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 just about anyone to have the ability to perform extensive data analytic queries in real-time 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

Washington

Actively involved in maintaining trails and aiding in tree nursery consultation

### MAPS

Teacher/Mentor

Redmond, WA

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

### BARAKAH CHARITY

Founding Member/Event Coordinator/Web Master

New York

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