

MOHAMMAD DARAGHMEH

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EDUCATION

Rochester Institute of Technology
Bachelor of Science • Computer Engineering • 2017
GPA: 3.85

Academies @ Englewood
Highschool • Pre-Engineering • 2012
GPA: 3.95

SKILLS

DATA ENGINEERING: Airflow, Flink, Hadoop, Iceberg, Kafka, MongoDB, Spark, Tablea

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

SOFTWARE: Adobe Creative Suite, AutoCAD, Git, Matlab, Microsoft Office Suite, MicroStation, PSpice, PyCharm, Radar, Visual Studio

EMPLOYMENT

APPLE Sept. 2022 - Present
Senior Engineering Program Manager 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 (10+) to facilitate the integration of major product teams such as Siri, Search, & Maps onto our offering, **AIML Data Platform**
- 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 Apr. 2020 - Sept. 2022
Technical Program Manager II 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** for direct engine improvements to the SCOPE language, such as GDPR-compliant Annotations and .NET Standard/Core Support

MICROSOFT Feb. 2018 - Apr. 2020
Technical Program Manager I 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 knowledge hub that boasts 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 Aug. 2014 - June 2017
Web Developer & Social Media Analyst 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** in 19/20/21, **BrickHack** 15/16/17, **HackNJIT** 15, **HackRPI** 15, & **RocHack** 14

MICROSOFT GLOBAL HACKATHON 2021 - TOP 5 WINNER

Project MOVEMENT provided an affordable & personalized way for anyone to improve their day-to-day or even professional form/motion for various activities. Activities include physical therapy, CPR certification, archery, dance, weightlifting, and everyday proper posture. My team and I commercialized cutting-edge technology such as a trained ML model, cloud-enabled frame-by-frame comparison, and an interactive suggestion engine. I was invited to present this groundbreaking solution to Satya's leadership, earning our team the honor of being selected for 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.

VOLUNTEERING

WASHINGTON TRAIL ASSOCIATION Feb. 2019 - Present
Volunteer Washington
Aided in maintaining trails & planting tree nurseries

MAPS June 2019 - Sept. 2021
Teacher/Mentor Redmond, WA
Taught multiple classes (Robotics, SAT Math, & 3D Printing) to students ranging from 7-14 years old

BARAKAH CHARITY Jan. 2013 - Aug. 2016
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