MOHAMMAD DARAGHMEH

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EDUCATION

Rochester Institute of Technology
Bachelor of Science • Computer Engineering • 2017
GPA: 3.54

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 Sept. 2022 - Apr. 2024
Senior Engineering Program Manager, AIML Platform 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 Apr. 2020 - Sept. 2022
Technical Program Manager II, Big Data Platform 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 Feb. 2018 - Apr. 2020
Technical Program Manager I, Big Data Platform 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 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** 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