Ahmed Helal

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EXPERIENCE

Research Assistant   01/2020 – 08/2021
Concordia University   *Montreal, QC, Canada*
- Manage KGLac, a modular system to build a large knowledge graph to represent meta-data on top of data lakes.
- Develop a scalable profiler as an ETL tool for KGLac capable of profiling thousands of columns.
- Devise and maintain tens of APIs to support data discovery and integration operations.
- Improve continuously the quality of the graph using state-of-the-art machine learning techniques.

Software Developer   08/2019 – 11/2019
Murex   *Beirut, Lebanon*
- Commit to 'Control Tower', an R&D BI system to monitor hundreds of trading and operations in real-time.
- Collaborate with two teams to prepare project iterations in an agile environment.
- Present the progress of the project development to different teams and managers on a bi-weekly basis.
- Diagnose and resolve bugs and issues.

Data Engineer - Internship   06/2018 – 08/2018
Attila AI   *Tunis, Tunisia*
- Understand clients' requirements to refactor the database schema.
- Architect and model data flows to create data pipelines.
- Devise APIs and their technical specifications using SwaggerHub and Flask.
- Design data pipelines by creating ETL jobs using Luigi.

EDUCATION

Concordia University   Montreal, QC, Canada
MCompSci in Computer Science - Supervisor: Dr. E. Mansour - GPA 4.3/4.3   *01/2020 – Present*

American University of Beirut   Beirut, Lebanon
BS in Computer Science - GPA 3.92/4.0 - High Distinction   *08/2015 – 05/2019*

University of Pennsylvania   Philadelphia, PA, USA
Semester Abroad - GPA 3.8/4.0   *01/2017 – 05/2017*

PUBLICATIONS

A Demo of KGLac: A Data Discovery and EnrichmentPlatform for Data Science   *VLDB'21*
Ahmed Helal, Mossad Helali, Khaled Ammar, Essam Mansour   *Accepted*
Data Lakes Empowered by Knowledge Graph Technologies   *SRC SIGMOD'21*
Ahmed Helal

Chi squared feature selection over Apache Spark   *IDEAS '19*
Mohamed Nassar, Haidar Safa, Alaa Al Mutawa, Ahmed Helal, and Iskander Gaba

AWARDS

Murex Computer Science Best Collaborative Development Project Award   06/2019
Faculty of Arts and Sciences, American University of Beirut

CCT Computer Science Student of the Year - Undergrad   06/2018
Faculty of Arts and Sciences, American University of Beirut

SKILLS

Languages: Arabic, French, English
Programming Languages: Java, Python, SQL, SPARQL
Data Systems: Apache Spark, Apache Hadoop, NoSQL, Databricks, AWS, Cloud solutions on Compute Canada.
Developer Tools: Git, Unix/Linux, Jenkins, PyCharm, IntelliJ, Eclipse