

# Ahmed Helal

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## EDUCATION

<b>Concordia University</b> <i>MCompSci in Computer Science - Supervisor: Dr. E. Mansour - GPA 4.3/4.3</i> <ul style="list-style-type: none"><li>Distributed Systems: A+</li><li>Big Data Analytics: A+</li></ul>	Montreal, QC, Canada <i>Jan 2020 – Present</i>
<b>American University of Beirut</b> <i>BS in Computer Science - GPA 3.92/4.0 - High Distinction</i>	Beirut, Lebanon <i>Aug 2015 – May 2019</i>
<b>University of Pennsylvania</b> <i>Semester Abroad - GPA 3.8/4.0</i>	Philadelphia, PA, USA <i>Jan 2017 – May 2017</i>

## EXPERIENCE

<b>Research Assistant</b> <i>Concordia University</i> <ul style="list-style-type: none"><li>Build KGLac a large scale system to build schema for data lakes.</li><li>Build a scalable data lake profiler to extracted data, process it, and then index it using Apache Spark.</li><li>Utilize cloud resources on Compute Canada to run KGLac on data lakes.</li></ul>	Jan 2020 – Present <i>Montreal, QC, Canada</i>
<b>Software Developer</b> <i>Murex</i> <ul style="list-style-type: none"><li>Build 'Control Tower' a Business intelligence system to optimize and monitor trading and operations.</li><li>Contribute to maintaining a Graphical User Interface for the 'Tower Control' tool.</li><li>Contribute to develop and maintain APIs to establish the connection between the components of 'Control Tower'.</li></ul>	Aug 2019 – Nov 2019 <i>Beirut, Lebanon</i>
<b>Data Engineering Intern</b> <i>Attila AI</i> <ul style="list-style-type: none"><li>Support clients to refactor the schema of the relational database.</li><li>Devise APIs and their specifications using SwaggerHub and Flask.</li><li>Support data pipelines by creating ETL jobs using Luigi.</li></ul>	Jun. 2018 – Aug. 2018 <i>Tunis, Tunisia</i>

## PUBLICATIONS

<b>A Demo of KGLac: A Data Discovery and EnrichmentPlatform for Data Science</b> <i>Ahmed Helal, Mossad Helali, Khaled Ammar, Essam Mansour</i>	<i>VLDB'21</i> <i>Accepted</i>
<b>Data Lakes Empowered by Knowledge Graph Technologies</b> <i>Ahmed Helal</i>	<i>SRC SIGMOD'21</i>
<b>Chi squared feature selection over Apache Spark</b> <i>Mohamed Nassar, Haidar Safa, Alaa Al Mutawa, Ahmed Helal, and Iskander Gaba</i>	<i>IDEAS '19</i>

## AWARDS

<b>Concordia University International Tuition Award of Excellence</b> <i>Concorida University</i>	Jan 2020 - Present
<b>Murex Computer Science Best Collaborative Development Project Award</b> <i>Faculty of Arts and Sciences, American University of Beirut</i>	Jun 2019
<b>CCT Computer Science Student of the Year (Undergrad)</b> <i>Faculty of Arts and Sciences, American University of Beirut</i>	Jun 2018
<b>Tomorrow's Leaders Scholarship Program</b> <i>Middle East Partnership Initiative- US State Department</i>	Aug 2015 – Jun 2019

## SKILLS

**Languages:** Arabic, French, English  
**Programming Languages:** Java, Python, SQL, SPARQL  
**Data Systems:** Apache Spark, Apache Hadoop, Elasticsearch, Apache Jena, Neo4j, Postgres  
**Developer Tools:** Git, PyCharm, IntelliJ, Eclipse