

Ahmed Helal

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EDUCATION

Concordia University

MCompSci in Computer Science - Supervisor: Dr. E. Mansour - GPA 4.3/4.3

- Introduction to AI: A+
- Big Data Analytics: A+

Montreal, QC, Canada

Jan 2020 – Present

American University of Beirut

BS in Computer Science - GPA 3.92/4.0 - High Distinction

Beirut, Lebanon

Aug 2015 – May 2019

University of Pennsylvania

Semester Abroad - GPA 3.8/4.0

Philadelphia, PA, USA

Jan 2017 – May 2017

EXPERIENCE

Research Assistant

Concordia University

- Profile data lakes to build a Knowledge Graph representing the schema of its structured data.
- Implement different APIs to query the knowledge Graph.
- Maintain data pipelines to parse data, create the knowledge graph, and load it to a graph database.

Jan 2020 – Present

Montreal, QC, Canada

Teaching Assistant | Data Systems class

Concordia University

- Prepare and give labs and assignments, and projects on SQL and NoSQL systems.
- Assist students with assignments and projects.
- Correct assignments, projects, and exams.

Jan. 2020 – Present

Montreal, QC, Canada

Software Developer

Murex

- Build 'Control Tower' a Business intelligence system to optimize and monitor trading and operations.
- Contribute to maintaining a Graphical User Interface for the 'Tower Control' tool.
- Contribute to develop and maintain APIs to establish the connection between the components of 'Control Tower'.

Aug 2019 – Nov 2019

Beirut, Lebanon

PUBLICATIONS

Data Lakes Empowered by Knowledge Graph Technologies

Ahmed Helal

SRC SIGMOD'21

Accepted

Chi squared feature selection over Apache Spark

Mohamed Nassar, Haidar Safa, Alaa Al Mutawa, Ahmed Helal, and Iskander Gaba

IDEAS '19

AWARDS

Concordia University International Tuition Award of Excellence

Concordia University

Jan 2020 - Present

Murex Computer Science Best Collaborative Development Project Award

Faculty of Arts and Sciences, American University of Beirut

Jun 2019

CCT Computer Science Student of the Year (Undergrad)

Faculty of Arts and Sciences, American University of Beirut

Jun 2018

Tomorrow's Leaders Scholarship Program

Middle East Partnership Initiative- US State Department

Aug 2015 – Jun 2019

SKILLS

Languages: Arabic, French, English

Programming Languages: Java, Python, SQL, SPARQL

Data Systems: Apache Spark, Elasticsearch, Apache Jena, Neo4j, Postgres

Developer Tools: Git, PyCharm, IntelliJ, Eclipse