

EDUCATION

University of Waterloo <i>Doctor of Philosophy (Ph.D.) in Computer Science</i> <i>Master of Mathematics (M.Math) in Computer Science, Fast-tracked to Ph.D.</i> <i>Supervisor: Semih Salihoglu</i>	Waterloo, Ontario, Canada Sep 2017 – Aug 2023 Sep 2016 – Aug 2017
Concordia University <i>Bachelor of Engineering (B.Eng) in Computer Engineering, with Distinction</i>	Montréal, Québec, Canada Sep 2012 – May 2016

SELECTED EXPERIENCE

University of Waterloo <i>Research and Teaching Assistant</i> <ul style="list-style-type: none">◦ Research - Data Systems: Building fast and efficient graph database systems and their applications.◦ Teaching Assistanships: Computer Applications in Business: Databases (CS338), Introduction to CS 1 (CS115).	Waterloo, Ontario, Canada Sep 2016 - Present
Société Générale SGCIB <i>Technology Analyst Intern</i> <ul style="list-style-type: none">◦ Contributed to changing a monolithic web based risk monitoring app to a service oriented architecture.◦ Helped reduce the length of the release cycle from 6 to 4 weeks.	Montréal, Québec, Canada May 2016 - Aug. 2016
Ericsson R&D <i>Software Engineering Intern</i> <ul style="list-style-type: none">◦ Developed a back-end service to virtualize physical IP Multimedia Subsystem (IMS) nodes.◦ Prepared a fully functional demo for World Mobile Congress 2016.	Montréal, Québec, Canada Sep. 2015 - Mar. 2016
Thales Group R&D <i>Research Intern (part-time)</i> <ul style="list-style-type: none">◦ Conducted research in aerospace DSP advised by professors William Lynch & Glenn Cowan.◦ Designed digital filters and amplitude detection algorithms and compared their latency and accuracy.	Montréal, Québec, Canada Nov. 2013 - Nov. 2014
Immersion Corporation <i>Software Engineering Intern</i> <ul style="list-style-type: none">◦ Designed haptic embedded mobile APIs in C and Java targeting OEMs and game developers.◦ Integrated the TouchSense product in the framework code of Android (AOSP) KitKat release.◦ Added haptic effects to native Android apps for demo purposes e.g. Camera.	Montréal, Québec, Canada Sep. 2013 - Dec. 2013, May 2014 - Aug. 2014

PUBLICATIONS GOOGLE SCHOLAR

- The Ubiquity of Large Graphs and Surprising Challenges of Graph Processing:** S. Sahu, A. Mhedhbi, S. Salihoglu, J. Lin, MT. Özsu. Proceedings of the VLDB Endowment 11, Nov. 2017.
- Graphflow, An active graph database:** C. Kankanamge, S. Sahu, **A. Mhedhbi**, J. Chen, and S. Salihoglu. Proc. ACM SIGMOD International Conference on Management of Data (Demonstration Track), May 2017.

PROJECTS

- **Graphflow** *graphflow.io*
 - Leading the development of a new prototype graph database licensed under Apache 2.0.
 - Developing an optimizer and auxiliary data structures to evaluate queries efficiently.
 - Implemented backed stores for vertex and edge properties, notifications of triggers, and filter queries.
 - Supervising undergraduate research assistants contributing to the project.

SKILLS

Technology: Java, Python, Javascript, SQL, C, C++, Shell Scripting.
Languages: English, French, Arabic.