

# Maram Assi

Kingston, ON, Canada

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www.maram.ca

## EDUCATION

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### Queen's University

Doctor of Philosophy in Computer Science (*GPA 4.2/4.3*)

Kingston, Canada

Sep. 2019 - Aug. 2023

- Recipient of the NSERC Vanier Graduate Canada Scholarship (ranked 15 out of 190 nationwide applications) granted by the Government of Canada (2021 – 2024)
- Recipient of the School of Computing Ian A. Macleod Award (June 2022)
- Recipient of the SGPS International Student Leader Award (Sep. 2021)
- Recipient of the SGS Award in Leadership, Innovation, and Community Engagement (July 2021)

### Lebanese American University (LAU)

MS in Computer Science (*GPA 3.6/4*)

Beirut, Lebanon

Feb. 2014 – Dec. 2017

- Recipient of the Graduate Merit Scholarship for Outstanding Students (2014 – 2016)

BS in Computer Science (*GPA 3.9/4 High Distinction*)

Sept. 2010 – Jan. 2014

- Recipient of the LAU Honor Scholarship Award for undergraduate students (2010 – 2013)

## TECHNICAL SKILLS

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**Programming Languages:** Java, Python, Oracle SQL, PL/SQL, R

**Tools:** GitHub, SVN, Jira, SQL developer, Oracle ADF, PLSQL developer, Photoshop

**Web development:** WordPress, HTML5, CSS3, PHP, JavaScript

## PROFESSIONAL EXPERIENCE

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### Acteos Production SAL Offshore

Software Analyst and Senior Software Developer

Beirut, Lebanon

June 2016 - Aug. 2019

- Analyzed, designed, and developed Supply Chain Management software systems for French retailers (e.g., E.Leclerc) using Oracle ADF Java-based framework and Oracle SQL database
- Visited occasionally clients in France to gather business requirements
- Mentored Junior developers

### Capital Banking Solutions SAL Offshore

Software Developer

Beirut, Lebanon

July 2013 - May 2016

- Developed the Client Database, External and Internal Transfers banking modules using Oracle ADF Java-based framework and Oracle SQL database
- Cooperated with analysts and designers to modify banking modules to adapt to new business requirements

## RESEARCH EXPERIENCE

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### Graduate Research Assistant, Queen's University

Member of Software Evolution & Analytics Lab (SEAL) supervised by Prof. Ying Zou

Kingston, Canada

Sept. 2019 – Present

Research focus: Software Engineering, Software Analytics, Software maintenance, Data mining and Machine Learning

- Comparing features of competing mobile apps by extracting aspects from user reviews leveraging neural networks
- Predicting the effort required to fix software defects in terms of code churn considering the defect categories
- Creating a solution catalogue for recurrent defects in Deep Learning frameworks

### Research Assistant, Lebanese American University

Collaboration with Prof. Ramzi Haraty

Beirut, Lebanon

Sept. 2015 – Aug. 2018

- Designed a solution using Genetic Algorithm (GA) and graph coloring method to solve the university course scheduling problem
- Designed a GA algorithm to schedule household appliances (Smart Grid) to reduce the monetary expenses leveraging the Time of Use price model

## TEACHING EXPERIENCE

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### Course Developed and Taught

- Introduction to Web programming (Grade 7 – 8 and Grade 9 – 12), Queen’s University June 2020 – Present
- Computer Applications, Lebanese American University Sept. 2014 – May 2016

### Teaching Assistant

- Topics in Data Analytics (Winter 2022 and Fall 2020), Queen’s University
- Computer Networks (Winter 2021), Queen’s University
- Elements of Data Analytics (Winter 2020), Queen’s University
- Fundamentals of Web Development (Fall 2019), Queen’s University
- Intro to Object-Oriented Programming (Fall 2015), Lebanese American University
- Object and Data Abstraction (Spring 2014 and Spring 2015), Lebanese American University

## PUBLICATIONS

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1. Maram Assi, Safwat Hassan, Stefanos Georgiou, and Ying Zou. Predicting the defect fixing effort leveraging the defect categories in open-source software systems (submitted to *ACM Transactions on Software Engineering and Methodology (TOSEM)*), 2022
2. Maram Assi, Safwat Hassan, Yuan Tian, and Ying Zou. FeatCompare: Feature comparison for competing mobile apps leveraging user reviews. *Empirical Software Engineering Journal (EMSE)*, 2021
3. Maram Assi, Bahia Halawi, and Ramzi Haraty. Genetic Algorithm Analysis using the Graph Coloring Method for Solving the University Timetable Problem, *International Conference on Knowledge-Based and Intelligent Information & Engineering Systems*, 2018
4. Maram Assi and Ramzi Haraty. Survey of the Knapsack Problem, *IEEE International Arab Conference on Information Technology*, 2018
5. Ramzi Haraty, Maram Assi, and Imad Rahal. A Systematic Review of Anonymous Communication Systems, *International Conference on Enterprise Information Systems*, 2018

## PROFESSIONAL SERVICE

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### Technical Program Committee Member

- Invited reviewer, IEEE Transactions on Software Engineering (TSE) July 2022
- Program Committee Shadow, Mining Software Repositories (MSR) Feb. 2022
- Co-reviewer, IEEE/ACM International Conference on Automated Software Engineering (ASE) 2020 & 2022
- Co-reviewer, ACM Symposium on the Foundations of Software Engineering (FSE) 2021

### Conferences Organized

- CS-Can | Info Can student conference, Canada July 2022- Aug. 2023
- Program Chair, Computing Student Research Conference (CSearch), Canada Jan. 2020 – Dec. 2020

## SELECTED LEADERSHIP ACTIVITIES

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**Elected Student representative to the board of directors, CS-Can | Info Can, Canada** Oct. 2020 – Present  
Chairing the Student & Postdoc Advisory Committee (11 members), responsible for developing engagement programs and activities fostering research for the Canadian computer science community at large

**President Graduate Computing Society (GCS), Queen’s University** Sept. 2020 - Present  
Overseeing the operations of the GCS Council in its entirety and acting as a speaker at the council meeting

**Steward at Graduate Teaching Assistants and Teaching Fellows Union (PSAC 901)** April 2020 - Present  
Striving to protect, maintain, and advance the interests of the computing department members of the Local

**Lead, Include, Transform Peer Facilitator, Queen’s University** Mar. 2020 – Dec. 2020  
Delivered training for more than 300 student leaders about Equity, Diversity, and Inclusive Leadership

## LANGUAGES

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English, French, Arabic