

Mary Elaine Ramos Malit

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<http://lengmalit.ca>

Objective

To work in the areas of machine learning, data mining and visualization.

Education

MSc in Applied Computing (MScAC), University of Toronto Sep 2016 – Dec 2017

CSC2702 – Technical Entrepreneurship

STA2104 – Statistical Data Mining

CSC2521 – Topics in Computer Graphics: Geometry Processing

CSC2701 – Communication for Computer Scientists

CSC2541 – Topics in Machine Learning: Differentiable Inference
and Generative Models

CSC2524 – Topics in Interactive Computing: Information Visualization

Honours Bachelor of Science (BSc), University of Toronto Sep 2010 – April 2014

Computer Science Specialist, English Minor – CGPA: 3.86 / 4.0

Relevant Courses:

CSC411 – Introduction to Machine Learning and Data Mining

CSC401 – Introduction to Natural Language Computing

CSC373 – Algorithm Design and Analysis

Work Experience

Rakuten Kobo, Toronto Jan 2018 – present

Big Data Software Engineer

- Developing and maintaining big data system to provide requested information across company
- Researching ways to improve recommendation system and catalogue discovery

BiblioCommons, Toronto May 2014 – Aug 2016

Front-End Software Engineer

- Developed front-end aspects of features like summer site badges, user-generated content, activity and notification feeds, curated lists, and purchase suggestions
- Upgraded the following pages to responsive views: user profiles, user dashboards, explore pages, and user lists.
- Maintained and improved general well-being of the app through bug fixes and customer support implementations.

Research Experience

Rakuten Kobo, Toronto May 2017 – Dec 2017

Big Data Research Intern

- Addressed the cold-user scenario by developing a first-time user experience that allows new users to effectively explore Kobo's catalogue.

University of Toronto, Toronto May 2013 – Aug 2013

Research Intern for the Analysis and Visualization of Pinterest Experts

- Worked with Prof. Nick Koudas at the Database Lab to develop a Java web application that determines which Pinterest boards and pinners are “experts” in a given topic.
- Developed algorithms that determine if a Pinterest user or board is an influential and reliable source in a given topic.
- Created a multi-threaded Java program that scanned a database of Pinterest data, then retrieved and indexed all necessary information for the algorithm.
- Developed the user interface to display analytics pertaining to boards, pins and users.

Research Paper: Alex Cheng, Mary Malit, Chuanxi Zhang, Nick Koudas: SerpentTI: flexible analytics of users, boards and domains for pinterest. SIGMOD Conference 2014: 1075-1078

Relevant Course Projects

Differentiable Inference and Generative Models

Sep 2016 – Dec 2016

Automatic Generation of Music Based on Mood of an Image

- Developed a generative model that synthesizes music given an image. The music attempted to evoke the same mood as the conditioning image.

Information Visualization

Sep 2016 – Dec 2016

Analytic Visualization of Book Recommendations

- Developed a visualization of book recommendations to facilitate comparisons of books within the recommendation space, based on author, title, popularity, average rating, length, publication date, and genre composition.

Technical Skills

Programming Languages

- Python, Java, Ruby, C, C++, C#, Go

Machine Learning, Data Science, and Big Data Libraries

- Theano, Keras, Numpy, SciPy, Spark, Luigi

Web Development

- Back-end technologies: Ruby on Rails, Django, Node.js, Java Web Application, .NET
- Front-end technologies: React, Handlebars, jQuery, Backbone.js, Sass, Twitter Bootstrap

Academic Awards

MITACS Accelerate Program

May 2017 – Dec 2017

Natural Sciences and Engineering Research Council Award

May 2013 – Aug 2013

Tom Hull Scholarship in Computer Science

Nov 2012

Dean's List Scholar

Jun 2011 – Apr 2014

University College Scholarship

Jun 2011 – Apr 2014

Queen Elizabeth II Aiming for the Top Scholarship

Sep 2010 – Apr 2014

J.S. McLean Scholarship

Sep 2010 – Apr 2014