

Maryam Khezzadeh

Research & Technology for the Common Good

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RECENT PROJECTS

The Visible Mosaic—Community Detection & Analysis

[Sponsored by BC Council for International Cooperation](#)—Uncovered the network of online connections between more than 1800 NGOs in BC to detect communities and core groups working towards the 17 global goals.

Plastic Fashion—An Investigation of Fashion Industry

Collected and compared data on two groups of brands showing [indicators of brand commitment](#) to addressing the *environmental and social issues* in their supply chains.

Toxic Beauty—An Investigation of Beauty Industry

Analyzed ingredients used by 1600 different brands to reveal the use of harmful chemicals in beauty and personal care products and to show a particular [landscape of the industry](#).

SKILLS

- **Data Science:** Research, Data Discovery, Exploratory Data Analysis, Visualization, Modeling
- **Programming:** R, Java, Ruby on Rails, Python, Haskell
- **Databases:** Data Modeling, MySQL, PostgreSQL, MongoDB, Redis, Elasticsearch
- **Web Development:** RESTful Web APIs, HTML, CSS, Javascript
- **Social Network Analysis:** Community Detection, Actor Profiling
- **Data Mining:** Text Mining, Language Analysis, Classification, Clustering, Regression, Summarization
- **Writing & Storytelling:** Visual Essays

SELECTED WORK EXPERIENCE

A.Y. Technologies—Freelance Senior Software Engineer

August 2016 - December 2017

Managed a small team of developers designing and implementing web APIs. I put client requirements in context through data modeling and trained our team to adapt existing/new technologies and oversaw continuous practice and refinement of our team processes.

Indicee/D&B Cloud Innovation Center—Senior Software Engineer

April 2012 - May 2015

Designed and implemented The Agency, a desktop bot which periodically acquires data from data sources on disk or on the cloud and uploads the data to the Indicee Analytics Engine through a custom API. The Agency also included a front end for defining and monitoring tasks executed by the Agents.

Foodtree—Lead Engineer

November 2010 - April 2012

Foodtree was an information system which could answer “where does my food come from?”. I Designed and implemented the complete backend of foodtree both in Ruby on Rails and in Java; created numerous data acquisition tools; and designed and implemented the main Map interface.

EDUCATION

University of Victoria, Victoria, BC—Master of Computer Science

Sep 2007 - Jan 2010

Studied *Data Mining* and *Artificial Intelligence* under supervision of [Alex Thomo](#) and [Bill Wadge](#).

Thesis Title: “Harnessing the power of Favourites Lists for Recommendation Systems”

Sharif University of Technology, Tehran, Iran—Software Engineering

Sep 2003 - June 2007

Attending SUT in Iran is the equivalent of getting accepted to Harvard University in North America.

Thesis Title: “Boosting evolutionary fuzzy systems with AIS-based local search”

TEACHING EXPERIENCE

Teaching Assistant at University of Victoria, September 2007—September 2009, I was a teaching assistant for Fundamentals of Programming (I and II) and Data Mining courses at UVic’s department of Computer Science during my graduate studies.

Arabic-English Language Exchange for Women, Spring and Fall of 2017, Organized by [Language Partners BC](#), this program aims at building social bridges by bringing Arabic speaking and English speaking women together. Knowing how to read and write Arabic, I participated both as a facilitator and as a learner.

PUBLICATIONS

Maryam Khezzadeh, Alex Thomo, William W. Wadge, **Harnessing the power of "favorites" lists for recommendation systems**. RecSys, ACM, 2009

M. Saniee Abadeh, J. Habibi, M. Daneshi, M. Jalali and M. Khezzadeh, **Intrusion detection using a hybridization of evolutionary fuzzy systems and artificial immune systems**. CEC, IEEE, 2007

HONORS & AWARDS

University of Victoria Fellowship Award I received a Master’s level fellowship award from the Faculty of Graduate Studies, University of Victoria in 2007 and 2008.

Ranked 26th in Iran’s nation-wide university entrance exam Millions of students take part in this exam every year. Based on the ranking, one gets to choose what university they want to attend.