

# Mehdi Akbarian Rastaghi

📍 Calgary, AB

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## Professional Experience (+6 Years)

### Fanap Co. | SOFTWARE ENGINEER - TECHNICAL LEAD

Jun. 2018 – Apr. 2021 | Skills: Spring Boot, Docker, Leadership, Agile

**SAKKU** is a Docker container-based cloud platform! As a founder and technical lead in Sakku, my duty was to:

- Coordinate a development team of 9 developers and 2 DevOps engineers,
- Design the architecture of the project with a Microservice approach,
- And develop the modules using Spring Framework and libraries.

During the first phase, we used Apache Marathon, Mesos, Docker Swarm, and many other technologies. We achieved to save 70% of resource usage and 310 users were engaged to develop, deploy, and maintain their applications.

**PODIUM** is a platform that provides vast kinds of SaaS. As a senior developer, my duty was to refactor the original code base of the cloud-storage module using Spring Boot, develop a file-sharing schema.

### WeClick Advertising Network | SOFTWARE DEVELOPER

Feb. 2015 – Jun. 2018 | Skills: Java, Android, SQL, Gradle

**TAPLEADER SDK** was an in-app real-time crash reporting platform that helps mobile applications prioritize and troubleshoot their most prevalent crashes based on the impact on real users. I implemented the Android library with Java and Android SDK to collect clients' activity data in different environments.

## Academic Experience

### University of Alberta | RESEARCH & TEACHER ASSISTANT

Jan. 2021 – Present | Skills: Entity Matching (EM), Data Pipeline, NLP, Transformers, PyTorch, Scikit-learn, Text Classification, SQL, NoSQL

**DATABASES LAB** Research assistant in Open Entity Resolution using Neural network approaches. During my research, I used transformer-based language models and NLP techniques, including text classification, to implement a platform that uses text features to match documents' entities. I achieved state-of-the-art results with more than 98% accuracy s in EM tasks.

### Ferdowsi University of Mashhad | TEACHER ASSISTANT

Sep. 2014 – Dec. 2020 | Skills: Workflow scheduling, Data Mining

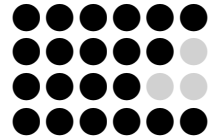
**CLOUD COMPUTING LAB** My task was simulating a datacenter with CloudSim and a implementing workflow scheduler as the Cloud Computing course project. Also I. designed a dockerized microservice application as the final project for M.Sc. Students of the Cloud Computing course.

**WEB TECHNOLOGY LAB** Worked on location-based data and find implicit relations between data and their geographical locations.

## Skills & Technology

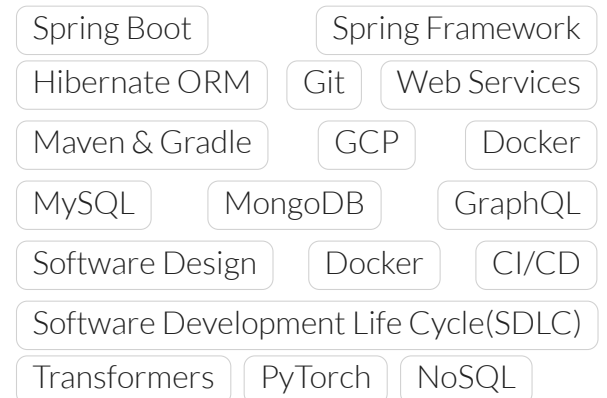
### Programming Languages

- Java SE
- Python
- Kotlin
- SQL



Familiar with: Scala, C, JavaScript, Bash

### Frameworks & Tools



## Mentorship Background

### Teacher Assistant & Mentorship

- TA for "Introduction to File and Database Management" course. 2022
- TA for "Information Retrieval" course. 2021
- Lab Mentor for "Software Engineering" course. 2017
- TA for "Fundamentals of Cloud Computing" course. 2018

## Education

### University of Alberta (UofA)

2021 - Present | Edmonton GPA: 3.7/4  
M.Sc. in Computer Science

M.Sc. Research: Open domain entity resolution and Entity Matching

### Ferdowsi University of Mashhad (FUM)

2014 - 2019 | Mashhad GPA: 3.5/4  
B.Sc. in Computer Engineering (Software)

B.Sc. Project: Workflow scheduling with Ant colony optimization algorithms

## Publications

### Probing the Robustness of Pre-trained Language Models for Entity Matching

PROCEEDINGS OF THE 31ST ACM INTERNATIONAL CONFERENCE ON INFORMATION AND KNOWLEDGE MANAGEMENT - CIKM '22

Oct. 2022 | Authors: Mehdi Akbarian Rastaghi, Ehsan Kamalloo and Davood Rafiei

### Geo-Enabled Business Process Modeling

18TH CONFERENCE ON BUSINESS PROCESS MANAGEMENT - BPM

May 2020 | Authors: Behshid Behkamal, Asef Pourmasoumi, Mehdi Akbarian Rastaghi, Hamid Reza Motahari-Nezhad, Mohammad Allahbakhsh and Issa Najafi

### Meeting of Events and Evidence on the Map

THE 24TH ACM SIGKDD INTERNATIONAL CONFERENCE ON KNOWLEDGE DISCOVERY AND DATA MINING - KDD '18

Aug. 2018 | Authors: Mehdi Akbarian Rastaghi, Behshid Behkamal and Asef Pourmasoumi

## Open Source Projects

### JThumbnail

[GITHUB.COM/MAKBN/JTHUMBNAIL](https://github.com/MAKBN/JTHUMBNAIL)

**Technologies:** Java, Apache POI, Apache Commons-IO, JODConverter, Open Office

- JThumbnail is a Java thumbnail generator for Office, PDF, HTML, Text, MP3, MPEG and Image documents.

### Java Leaflet

[GITHUB.COM/MAKBN/JAVA\\_LEAFLET](https://github.com/MAKBN/JAVA_LEAFLET)

**Technologies:** Java, JavaScript, HTML, Leaflet, Data Visualization, GeoJSON

- Java wrapper for Leaflet, a JavaScript library for mobile-friendly interactive map that helps to visualize geographic data structures easily in Java.

### Finding Trudeau

[GITHUB.COM/MAKBN/FINDING\\_TRUDEAU](https://github.com/MAKBN/FINDING_TRUDEAU)

**Technologies:** Java, Hibernate, Jackson JSON

- Finding Trudeau (FT) is a simple application for crawling CNN and Twitter looking for any news and tweets about Justin Trudeau. Plus, you can generate word cloud from the most important topics and keywords from Mr. Trudeau's tweets!

### SignalGo

[GITHUB.COM/SIGNALGO](https://github.com/MAKBN/SIGNALGO)

**Technologies:** Java, Android, Guava, Jackson JSON

- SignalGo is a framework to distribute a computational process among a group of mobile clients. My task was to design the client-server architecture of the framework and implement the Java client using Java 8.

## Certificates

### Building Scalable Java Microservices with Spring Boot and Spring Cloud

AUTHORIZED BY GOOGLE CLOUD AND OFFERED THROUGH COURSERA

Grade Achieved: 100%

[Show Credentials](#)

### Introduction to MongoDB

AUTHORIZED BY MONGODB INC. AND OFFERED THROUGH COURSERA

Grade Achieved: 100%

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### Agile with Atlassian Jira

AUTHORIZED BY ATlassian AND OFFERED THROUGH COURSERA

Grade Achieved: 95%

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### Python

OFFERED THROUGH KAGGLE

Grade Achieved: 100%

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### Beyond Academia: Preparing for the Workplace

OFFERED THROUGH FACULTY OF GRADUATE STUDIES AND RESEARCH

## References

### Prof. Davood Rafiei

PROFESSOR IN THE DEPARTMENT OF COMPUTING SCIENCE, UOFA

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### Dr. Saeid Abrishami

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### Dr. Behshid Behkamal

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### Hamidreza Amouzegar

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