

Pooneh Mousavi

Contact Information

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EDUCATION

Ph.D. in Computer Science

2022 - present

Concordia University, Montreal, Quebec, Canada

M.S. in Computer Science

2018 - 2021

University of Texas at Dallas, Dallas, TX

GPA: **3.9** out of **4**

BSc. in Computer Engineering

2009 - 2013

K. N. Toosi University of Technology (KNTU), Tehran, Iran

Thesis: "Design and implementation of Travel Request System by **Bizagi Suit** as a **BPMS**"

PUBLICATION

WOODS: Benchmarks for Out-of-Distribution Generalization in Time Series. Jean-Christophe Gagnon-Audet, Kartik Ahuja, Mohammad Javad Darvishi Bayazi, Pooneh Mousavi, Guillaume Dumas, Irina Rish (NeurIPS 2022- under review)

Detecting Hashtag Hijacking for Hashtag Activism. Pooneh Mousavi, Jessica Ouyang (NLP for Positive Impact (EMNLP 2021))

"Please Donate for the Affected": Supporting Emergency Managers in Finding Volunteers and Donations in Twitter Across Disasters. Pooneh Mousavi, Cody Buntain (ISCRAM 2022).

PROFESSIONAL EXPERIENCE

Research Scientist

10/2021 - 08/2022

The Ubiquitous Knowledge Processing Lab at the Technische Universität Darmstadt, Germany

- Applying ML and NLP for "**AI In Digital Mental Health**" project.
- Working with text and **multimodal** content.
- Severely **missing** multimodal data for affective analytics

Data Science - Technology Solutions Intern

01/2021 - 05/2021

Pioneer Natural Resources, Dallas, TX,US

- Designed an algorithmic framework for real time **anomaly detection** alert of the Electric Submersible Pump on **time-series data** using **LSTM**, **Transformers** and **AR models**
- Integrated ML solutions in EP workflows and provided scalable solutions in Pioneer's Real Time Streaming Environment

Senior JAVA Developer, Technical Lead

2017 - 2018

Dotis Arian Gheshm (Dotin), Tehran, Iran

- Designed and implemented **Payment Switch Service Provider** to provide user interface and API for clients and external applications with the TPS

of 100 with 10M Clients using **MicroServices Architecture** and **Rich Internet Application (RIA)** for Services Architecture and **Angular2/4** and **spring/springboot** as frameworks

- Designed and implemented **Report Generator Service** and **Geographic Analysis of banking data** using Apache Spark and big data processing methods on more than 8M transactions data per day
- Setup continuous deployments for multiple projects of varying technologies through **Jenkins** and **Docker** and deliver testable code using **Junit** and **Selenium**

Full Stack Developer

2014 - 2017

Dotis Arian Gheshm (Dotin), Tehran, Iran,

- worked as a software Architect to Implement **VISA and China Union** cards in Switch part of banking system using **SOA Architecture** and **Test Driven Development**
- Refactored Switch data model and technology to boost performance of the application using in-memory database systems (**IMDS**)
- Implemented different security algorithms to improve security of applications working with **Hardware Security Module, 3-D Security, RSA, TDES and DUKPT**
- Member of Quality Control team, Implement different tools like **Git** and **SonarCube**, **Maven**

Java Developer

2012 - 2013

OsulPayeFaragir, Tehran, Iran

- Designed and implemented application for managing team mate auditing to share knowledge to perform assigned task according to their section lead with 100 employees using **java** and **JSF**
- Designed and implemented application to store and retrieve financial data of subsidiary companies using **SOA Architecture** and **Test Driven Development**

WORKSHOP PARTICIPATION	<i>The Qiskit Global Summer School on Quantum Machine Learning</i>	2021
	<i>The Complex Networks Winter Workshops</i>	2021

The Vermont Complex Systems Center

<i>The Summer Institutes in Computational Social Science</i>	2020
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Rutgers University, New Brunswick, NJ

<i>Understanding and Exploring Network Epidemiology in the Time of Pandemic</i>	2020
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University of Maryland, College Park, MD

TECHNOLOGY SKILLS

- *Programming Languages:* Java, Python, R, C/C++
- *Cloud and Operations Technologies:* Docker, Kubernetes, Jenkins, Nexus, Maven, Gradle, Ansible.
- *Web/DB Technologies:* TypeScript/JavaScript, Angular2/4, MongoDB, SQL Server, Oracle, PostgreSQL.

TEACHING EXPERIENCE	<i>Teaching/Research Assistant, University of Texas at Dallas (UTD)</i>	2018-2020
	<i>Teaching Assistant, K. N. Toosi University of Technology (KNTU)</i>	2013