Pooneh Mousavi

Contact Information

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EDUCATION

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

The Qiskit Global Summer School on Quantum Machine Learning 2021
The Complex Networks Winter Workshops 2021
The Vermont Complex Systems Center

The Summer Institutes in Computational Social Science 2020
Rutgers University, New Brunswick, NJ

Understanding and Exploring Network Epidemiology in the Time of Pandemic 2020
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

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