

## Pooneh Mousavi

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### 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

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

*Pooneh Mousavi, Cody Buntain (CSCW 2021). “Please Donate for the Affected”: Supporting Emergency Managers in Finding Volunteers and Donations in Twitter Across Disasters.*

### PROFESSIONAL EXPERIENCE

*Research Scientist*

10/2021 - 04/2022

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

- ML and NLP for clinical psychology and psychiatry.
- Working with text and increasingly with multimodal content

*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**

<b>WORKSHOP PARTICIPATION</b>	<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
	Rutgers University, New Brunswick, NJ	
	<i>Understanding and Exploring Network Epidemiology in the Time of Pandemic</i>	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.
- *Frameworks:* Spring/SpringBoot, Hibernate, JSF.

## 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