Shahriar Yazdipour

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RESEARCH INTERESTS

Interested in **NLP, Applied ML, Knowledge Engineering, Software Engineering**

EDUCATION

- **Masters in Research in Computer & Systems Engineering**   Technische Universitat Ilmenau
  2019 - Now   *Thuringia, Germany*
  - Software & System Engineering
  - Software Architecture
  - Complex Embedded
  - System Security
  - Information Systems
  - Research Project (Text-to-SparQL)
  - Research Seminar (COVID19 Tweets Data Graph Analysis)
  - Research Skills (Github GraphQL Security Flaw)
  - Algorithms

- **Bachelor of Computer Science**   Kharazmi University
  2013 - 2018   *Tehran, Iran*
  - **GPA**: 17/20 Iranian Scale
  - **Thesis 20.0/20.0** : A Recommendation System for Undergraduate/Graduate Applicants Seeking Financial Scholarship for Studying Abroad (Advisor: Dr.Taherian)

- **Certifications**:
  - Web Security (Shahid Beheshti University)
  - CCNA (Cybertech Co.)
  - NetworkPlus (Cybertech Co.)

PUBLICATIONS

- **Github Data Exposure using GraphQL Security Design Flaw (1k$ Bug Bounty)**   2019
  S.Yazdipour, CCSE2020 - The 10th International Conference on Computer and Systems Engineering*   *[Published]*

- **Decision Support for International Students Who Want to Fund Their Graduate Studies**   2017
  S.Yazdipour, N.Taherian "(IEEE) International Conference on Machine Learning and Data Science, India"*   *[Published]*

PROJECTS (HTTPS://YAZDIPOUR.GITHUB.IO/APPS/)

- **Text-to-SPARQL Transformer**:   Currently Working on
  - Implementation of sentence embedding for learning the transformation of questions to SPARQL queries with DBPedia/WikiData graph data integration in **Google T5 and BERT Transformer**.

- **StyleGan on Persian Carpet-Rug Patterns and Design**:   Currently Working on
  - Collecting and Gathering database of Persian carpet designs and Using the well known **StyleGAN** to Generate carpet designs

- **Covid-19 Opinion Leaders on Twitter**   Graph Analysis
  *Identifying opinion leaders using in Tweets dataset using social network **Graph Analysis** methods.*   *Sep 2020*

- **Enterprise Cross-platform Indoor mapping Application using Beacons**   Xamarin
  Geo Info Android and Windows Indoor mapping Application using beacons in GFP Startup   *Aug 2018-Jan 2019*

- **Enterprise Android GIS Application**   Java
  Editable custom map rendering, On/Offline Navigation with mission manager dashboard   *2018-Jan 2019*

- **Recommendation System and Data Driven Decision Support** (github.com/yazdipour/DM17) Python
  for international student who seeks to study abroad with financial help *Sep - Nov 2017*
  - ○ We have implemented a technique to bypass vBulletin CMS authentication system to crawl unstructured raw data from it and provide a database and afterwards using data analysis methods such as Decision tree, K-Nearest Neighbor and K-Means to determine chance of getting fund and building a Recommendation system, using Python libraries for data mining and PHP for server side Web crawler.

- **First Persian UWP Application** (https://goo.gl/3Z1STA) C#
  iTehran is the First Persian UWP application consist of Tehrans Public-Transportations full database. *Aug 2015*
  - ○ Universal Windows Platform(UWP) is a platform-homogeneous application architecture. The purpose of this software platform is to help develop universal apps that run on Windows 10, Xbox One and Hololens.

- **Wireless Garage Door Cracker**: Jul 2017
  - ○ Consist of Capturing sub-1 GHz signals with RTL-SDR and Analyzing them with GQRX and URH(Universal Radio Hacker) and sending signals with YardStickOne.

Skills & Experiences

- **Programming Languages**: Professional with Java, C# and Python
- **Machine Learning Frameworks**: PyTorch, Huggingface, Keras TF
- **Platform Development Experience**: For Android, UWP, Xamarin, WPF
- **Databases/QLs**: MySql, SQLite, Neo4j, SparQL
- **Tools**: Git, Azure, Docker, Kubernetes

Experience

- **Industry Experience**:
  - ○ **Software Engineer at TomTom - Berlin, Germany**: Developing and delivering services in the field of traffic and travel information, tested and applied in the real-production system. Specifically It is my daily job to work with **API service Design, Developing with Java, working with Azure and Kubernetes** and experiencing and learning new technologies.
    Aug 2020 - Now
  - ○ **Software developer at 'GFPishro Co' - Tehran, Iran**: In GFPishro, working on **GIS** was the main focus of our team. We developed an Enterprise Software Package, Including **Cross-platform Web, Desktop and Mobile applications**. Also our team developed an indoor navigation application for **Android devices using Beacons**
    Oct 2017-Jan 2019

- **Teaching Experience**:
  - ○ **Teacher Assistant - Fundamental of Programming (Dr. Somaye Arabi)**: *Fall 2016*
  - ○ **Teacher Assistant - Fundamental of Database (Dr. Somaye Arabi)**: *Winter 2016*

- **Membership**:
  - ○ **Member of Kharazmi University ACM Society**: *2013-2015*
  - ○ **Student Member of Persian Society of Machine Vision and Image Processing**: *2017 - Aug 2018*

Languages

- Persian (Native)

- English (Fluent - Studied and worked in English Environments)