

Shahriar Yazdipour

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EDUCATION

- **Masters in Research in Computer & Systems Engineering** Technische Universitat Ilmenau
2019 - Now Thuringia, Germany
 - Software & System Engineering
 - Software Architecture
 - Complex Embedded System
 - System Security
 - Information Systems
 - Research Project (Text-to-SparQL)
 - Research Seminar (COVID19 Tweets Data Graph Analysis)
 - Research Skills (Github GraphQL Security Flaw)
 - Algorithms
 - Image Processing Lab
 - Robot vision Lab
- **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:** (github.com/yazdipour/certificates)
 - Structuring Machine Learning Projects - Coursera
 - NLP with Python for Machine Learning - LinkedIn
 - CCNA from Cybertech Co.
 - NetworkPlus from Cybertech Co.
 - Web Security from Shahid Beheshti University
 - Artificial Intelligence Foundations - LinkedIn
 - Python 3 from Udemy

PUBLICATIONS

- **Github Data Exposure using GraphQL Security Design Flaw (1k\$ Bug Bounty)** 2019
S.Yazdipour, CCSE2020 - The 10th International Conference on Computer Engineering, Ilmenau Germany [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]*
 - 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.
- **Google T5 in RDF World - Text-To-SPARQL Transformer Model** 2021
S.Yazdipour, N. Steinmetz* [Draft]

SKILLS & EXPERIENCES

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

- **Text-to-SQL Transformer - Evaluation of all methods** 2022
Evaluating and improving Text-To-SQL using ruled base methods - PICARD
- **Text-to-SPARQL Question Answering Transformer:** Aug 2021
◦ 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:** On going
◦ Collecting and Gathering database of Persian carpet designs and Using the well known **StyleGAN** to Generate carpet designs
- **Covid-19 Opinion Leaders on Twitter - Data Mining and Graph Analysis** Python
*Identifying opinion leaders using in Tweets dataset using social network **Graph Analysis** methods.* Sep 2020
- **OpticalFlow and Color Segmentation Navigation for MIRA Robot** C++
Developed robotic navigation using its camera system for Robotic Course Jan 2020
- **Enterprise Android GIS Application** Java
Editable custom map rendering with On/Offline navigation. Support for organization mission control 2018-Jan 2019
- **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
- **Wireless Garage Door Cracker**
Capturing sub-1 GHz signals with RTL-SDR and Analyzing with GQRX and sending signals with YardStick1. Jul 2017
- **First Persian UWP Application** 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.

EXPERIENCE

- **Industry Experience:**
 - **Software Engineer Intern 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 **MQTT and API service Design, Developing with Java, working with Azure and Kubernetes** and experiencing and learning new technologies.
Aug 2020 - Now
 - **Software Engineer 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

1. English (Fluent)
2. Persian (Native)
3. German (Basic)