

Shahriar Yazdipour

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EDUCATION

2019 - 2022

Masters in Research in Computer & Systems Engineering

Technische Universitat Ilmenau

Thuringia, Germany

- Software & System Engineering
- o Software Architecture
- o Complex Embedded System
- Information Systems
- o Algorithms

- Research Project (Text-to-SparQL)
- Research Seminar (COVID19 Tweets Data Graph Analysis)
- Research Skills (Github GraphQL Security Flaw)
- $\circ\,$ Image Processing and Robot vision Lab

Bachelor of Computer Science

2013 - 2018

Kharazmi University Tehran, Iran

- o **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. Nahid Taherian)

o Data Mining

• Data Structure and Algorithms

o Software Design Basics

• Compiler

• Fundamentals of Theory of

o Databases

• Probability and Statistics

Computations

• Entrepreneurship

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]

SKILLS & EXPERIENCES

- Programming Languages:
 - o Python (PyTorch, Huggingface, Keras, Flask, Web3, PyAutoGui, ...)
 - o Java (Quarkus, Spring, Android, Swing,...)
 - C# (Xamarin, UWP, WPF, .NET,...)
 - C++/Arduino and Some Front-End Experience.
- Tools: Git, Microsoft Azure, Docker, Kubernetes
- Databases/QLs: MySql, SQLite, Neo4j, SparQL

• BackEnd Software Engineer Intern at 'TomTom' - Berlin, Germany:

Aug 2020 - Now

- Main Task: Delivering services in the field of traffic and travel information, tested and applied in the real-production system.
- $\circ~$ Working in \mathbf{Agile} environment with daily standups and $\mathbf{Jira}~\mathbf{Kanban}$ discussions.
- Developing JAVA Spring Web Service for TPEG2-EAW and TPEG2-EVA Services.
- o Developing JAVA Quarkus Web Service with MQTT Pub/Sub Service.
- Customizing and deploying VernemQ MQTT Broker.
- o Deployment on Microsoft Azure and AKS Kubernetes Cluster.

• Android Software Engineer at 'GFPishro Co' - Tehran, Iran:

Oct 2017-Jan 2019

- Main Task: Creating a Geo Information Service/Software-Package, including Web, Desktop and Mobile applications for our Customers.
- Developing Java / Android Mapping system based on MapsForge renderer system, graphhopper offline navigation for our customers using IntrAnet.
- Developing Simple Reporting Application for Client in iOS Xamarin Forms with C#.

PROJECTS

• Text-to-SPARQL Question Answering Transformer (NL2Script):

Aug 2021

- Main Task: Implementation of sentence embedding for learning the transformation of questions to SPARQL queries with DBPedia WikiData data integration in **Google T5 and BERT Transformer**.
- Research on finding related works in Transformers and Language Models.
- Pre-processing and collecting a data-set with specific features needed.
- Implement Fine Tuning steps for Google T5 model using Pytorch.
- Developing pipeline from dataset to deploying the model to Huggingface repositories.

• Covid-19 Opinion Leaders on Twitter - Data Mining and Graph Analysis:

Sep 2020

- Main Task: Identifying opinion leaders in Twitter using social network Graph Analysis methods.
- Pre-processing and gathering 300GB twitter data-set with specific features needed for the project.
- Using Social network analysis methods such as Centrality Measures to find opinion leaders.
- Using NetworkX Python library for network analysis and Dask.py for parallel computing.

• Developed MIRA Robot navigation system:

Dec 2019

- OpticalFlow and Color Segmentation Navigation using its camera system with C++
- o Object Detection using ResNet, ImageNet architecture with Pytorch

Recommendation System for Undergraduate/Graduate Applicants Seeking Financial Scholarship for Studying Abroad:

- We have implemented a technique to bypass vBulletin CMS authentication system to crawl unstructured raw data from it and provide a dataset
- Using data analysis methods such as Decision tree, K-Nearest Neighbor and K-Means to determine chance of getting fund for graduate students.

Wireless Garage Door Cracker

Capturing sub-1 GHz signals with RTL-SDR and Analyzing with GQRX and sending signals with YardStick1. Jul 2017

• UWP Applications (First Persian UWP Developer):

2015 - 2016

- Developed iTehran which is the First Persian UWP application.
- \circ Developed multiple UWP and WPF application with more than 30,000 users download overall.
- Used MVVM, Xaml and C# and multiple Database systems.
- Designed UI and Logo of each application using Adobe XD and Photoshop.