Shahriar Yazdipour

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Software Engineer and Data Scientist
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EDUCATION

Masters in Research in Computer & Systems Engineering   Technische Universitat Ilmenau
2019 - 2022   *Thuringia, Germany*

- Software & System Engineering
- Software Architecture
- Complex Embedded System
- Information Systems
- Algorithms
- Research Project (Text-to-SparQL)
- Research Seminar (COVID19 Tweets Data Graph Analysis)
- Research Skills (Github GraphQL Security Flaw)
- Image Processing and 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. Nahid Taherian)

- Data Mining
- Compiler
- Probability and Statistics
- Data Structure and Algorithms
- Fundamentals of Theory of Computations
- Software Design Basics
- Databases
- 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**:

  - **Python**   (PyTorch, Huggingface, Keras, Flask, PyAutoGui, MLFlow, ...)
  - **Java**   (Quarkus, Spring, Android, Swing,...)
  - **C#**   (Xamarin, UWP, WPF, .NET,...)
  - **Web**   (HTML, CSS, Basic VueJS, jQuery)
  - **Blockchain**   (Solidity, Web3.py, Brownie)

- **Tools**: Git, Microsoft Azure, Docker, Kubernetes, Helm, Arm Template

- **Databases/QLs**: MySql, SQLite, Neo4j, SparQL, PostgreSQL

LANGUAGES

1. English (Fluent)

2. Persian (Native)

3. German (Basic)

Work Experience

- **BackEnd Software Engineer Intern at 'TomTom' - Berlin, Germany**:   **Aug 2020 - Now**

  - Main Task: Delivering services in the field of traffic information, tested and applied in the real-production system.
  - Working in **Agile** environment with daily standups and **Jira Kanban** discussions.
  - Programming a **Java Spring** REST API Service with Protobuf for TPEG2-EVA.
  - Developing **Java Quarkus** MQTT Pub/Sub Service for TPEG2-EAW.
  - Customizing and deploying **VernemQ MQTT Broker**.
  - Deployment on **Microsoft Azure Cloud and Kubernetes**. (Write ARM Templates, Working with Helm Charts, Working with ACR, AKS, App Services, Logic App, Azure DNS & Storage and SFTP Servers).

- **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 customer.
  - 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#**.
  - Using Visual Studio App Center for CI/CD pipeline.

Projects

- **Text-to-SPARQL Question Answering Transformer (NL2Script)**:   Aug 2021

  - 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**.
  - Pre-processing and collecting a data-set with specific features needed.
  - Implement Fine Tuning steps for T5 Language model using **Pytorch**.
  - Developing a pipeline from data to deploying the model to Huggingface repositories.

- **Covid-19 Opinion Leaders on Twitter - Data Mining and Graph Analysis**:   Sep 2020

  - Task: Identifying opinion leaders in Twitter using social network **Graph Analysis** methods.
  - Pre-processing 300GB twitter data-set with specific features using **Dask.py (parallel computing library)**.
  - Using Social network analysis methods to find opinion leaders with **NetworkX** Python library.

- **Developed MIRA Robot navigation system**:   Dec 2019

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

- **Recommendation System for Student Applicants, Seeking Financial Scholarship for Studying Abroad**:   2017

  - 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/WPF Applications (First Persian UWP Developer)**:   2015 - 2016

  - Developed iTehran which is the First Persian UWP application.
  - Developed multiple WPF and UWP application with more than 30,000 users download overall.
  - Used MVVM, Xaml and C# to design Desktop and Mobile friendly applications.
  - Designed UI and Logo using Adobe XD and Photoshop.