

# Shahriar Yazdipour

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## EDUCATION

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- **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

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- **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.

## SKILLS & EXPERIENCES

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- **Programming Languages:**
  - Python (PyTorch, Flask, Huggingface, Keras, Gradio)
  - Java (Quarkus, Spring, Android, Swing)
  - C# (Xamarin, UWP, WPF, .NET)
  - C++ (Arduino)
- **Databases/QLs:** MySQL, SQLite, Neo4j, SparQL
- **Tools:** Git, Microsoft Azure Cloud Services, Docker, Kubernetes

## EXPERIENCE

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### • 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

## PROJECTS (GITHUB.COM/YAZDIPOUR)

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- **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.

## LANGUAGES

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