

# Shahriar Yazdipour

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## EDUCATION

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- **Masters in Research in Computer & Systems Engineering** Technische Universität Ilmenau  
*2019 - Now* *Thuringia, Germany*
  - Software & System Engineering
  - Software Architecture
  - Complex Embedded System
  - Information Systems
  - Algorithms
  - Image Processing and Robot vision Lab
- **Bachelor of Computer Science** Kharazmi University  
*2013 - 2018* *Tehran, Iran*
  - **Thesis 20.0/20.0** : A Recommendation System for Undergraduate/Graduate Applicants Seeking Financial Scholarship for Studying Abroad (Advisor: Dr. Nahid Taherian)
- **Certifications:** (github.com/yazdipour/certificates)
  - Structuring Machine Learning Projects - Coursera
  - NLP with Python for Machine Learning - LinkedIn
  - Artificial Intelligence Foundations - LinkedIn
  - Python Beginner to Advanced - Udemy
  - Microservices Foundations - LinkedIn
  - Web Security - Shahid Beheshti University
  - CCNA - Cybertech Co.
  - Network+ - Cybertech Co.

## EXPERIENCE

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- **BackEnd Software Engineer Intern at 'TomTom' - Berlin, Germany:** **Aug 2020 - Now**
  - Main Task: Developing and delivering services in the field of traffic and travel information, tested and applied in the real-production system.
  - Developing Java Spring Web Service for TPEG2-EAW and TPEG2-EVA Services.
  - Developing Java Quarkus Web Service with MQTT Pub/Sub Service.
  - Customizing and deploying VernemQ MQTT Broker.
  - Deployment on Microsoft Azure and AKS Kubernetes Clusters.
- **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 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.
  - Researching and implementing indoor mapping based on Bluetooth beacons on mobile platforms.

## SKILLS & EXPERIENCES

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

## 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 dataset and using **data analysis methods such as Decision tree, K-Nearest Neighbor and K-Means** to determine chance of getting fund for graduate students.

## 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)