Sha Yazdipour

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Profile

Shahriar (Sha) is a dynamic software engineer with a Master's degree in Computer Science from TU Ilmenau, currently making strides at Ubisoft. With a strong foundation in **JAVA Back-end** development from his tenure at TomTom Berlin, Sha excels in **Machine Learning** and Backend Service Development, where he tackles complex challenges and drives innovation. His background also includes experience as an Android Developer and contributions to open source **C#** projects, underscoring his commitment to continuous learning and passion for exploring new technologies.

Education

- **Masters, Computer Science & Systems Engineering** — Technische Universitat Ilmenau
  2019 - 2022 — *Thuringia, Germany*
- **Bachelor, Computer Science** — Kharazmi University
  2013 - 2018 — *Tehran, Iran*

Work Experience

- **Software Engineer at 'UbiSoft' - Dusseldorf - Germany** **August 2022 - Now**:
  - Main Task: Maintaining 7 different Service development for tackling toxicity and abuse in online video games and making a safer place for players.
  - Working in **Agile** Environment and Multicultural Team.
  - Developing **Java Microservice** and contribute on code reviews.
  - Maintaining Kubernetes infrastructure and working with **AWS** Services such as Serverless Lambda and DynamoDB.
  - Working on API design and Maintaining CICD pipelines.
- **Software Engineer Intern at 'TomTom' - Berlin, Germany**: Aug 2020 - July 2022
  - Main Task: Delivering services in the field of traffic information, tested and applied in the real-production system.
  - Programming a **Java Spring** REST API Service with Protobuf.
  - Developing **Java Quarkus** MQTT Pub/Sub Service with **VernemQ MQTT Broker**.
  - Deployment on **Microsoft Azure Cloud and Kubernetes**. (Write ARM Templates, Work with Helm Charts, ACR, AKS, App Services, Logic App, 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 **Android / iOS Xamarin** Mapping system based on MapsForge render system, graph-hopper offline navigation for our customers using Intranet.

Skills & Experiences

- **Programming Languages**:
  - **Java** (Spring, Android, Swing, Quarkus)
  - **Python** (PyTorch, Huggingface, Keras, Flask, PyAutoGui)
  - **C#** (.NET, Xamarin, UWP, WPF)
  - **Web** (HTML, CSS, TS, jQuery)
  - **Databases** (SQL, MySql, SQLite, Neo4j, SparQL, PostgreSQL)
- **Tools**: Git, Docker, Kubernetes, Helm, Microsoft Azure, AWS

Projects

- **HarpoonAI - RAG LLM for Docs-Code-APIs**: Dec 2023
  - Hackathon project that connects internal APIs with LLM.
  - You can ask LLM to call API endpoints in a chain, generate docs and code, using LangChain and Azure OpenAI service.
- **Text-to-SQL Transformer - Evaluation of all methods** 2022
  Evaluating and improving Text-To-SQL using ruled base methods with PICARD
- **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.
- **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.
- **Open source projects**
  https://github.com/yazdipour

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]*