Arash Yadegari

Summary

- Master degree in Software Engineering, Bachelor degree in Information Technology Engineering
- More than 4 years experience in IT
- Experience with Python, SQL, Java
- Experience with data engineering and data science
- Knowledge in programming, database modeling, SQL/NoSQL, AI
- Experience with dev-op tools, Agile methods
- Eager to learn, analytical thinker, autonomous, communication and collaboration skills

Work Experiences

5/2023 – present

Data Engineer (Researcher), *Avans Hogeschool (Institutional Research team)*, full-time job.
Tech. Stack: Python (PySpark, Pandas), Azure Databricks, Azure DevOps
Responsibilities: Data transformation, modeling, visualization, Research, Participation in team roles, collaborating with cross-functional teams

- Demonstrated comprehensive expertise in cloud-native Software Engineering, encompassing Azure Web App Service, and Azure DevOps with CI/CD pipelines, ensuring a holistic and efficient application lifecycle management
- Proactively initiated collaborative projects, bringing together cross-functional teams from various departments within the organization, and applied my background knowledge for in-depth research and data analysis, driving improvements and innovation
- Exemplified Agile principles by taking the lead in project planning and employing Azure DevOps, promoting transparency and ensuring efficient project management
- Efficiently learned and developed data representation layers utilizing Databricks, Power BI, and React.js

4/2019 – 12/2024 (expected)

PhD Researcher, *Rijksuniversiteit Groningen*, full-time job, Computer Science (Information Systems research group).
Tech. Stack: Python, Scikit-learn, Process Analysis tools
Responsibilities: Research, Co-supervision, Presentation, Publishing

- Contributed in: 7 scientific works
- Presented works in: ICSOC 2022, IEEE EDOC 2021
- Co-Supervised: 5 Bachelor, 1 Master students
- Reviewed scientific papers: BPM 2023, ICSOC 2021, Master Students Colloquium

9/2018 – 2/2019

Software Developer, *Diaalog*, part-time job, Website Chatbot.
Tech. Stack: Python, Docker (Rancher), Flask, Mongo DB
Responsibilities: Backend development, CI/CD, documentation, algorithm design

- Upgraded the dialogue logic and provide a tree data structure in order to follow a dialogue
- Developed Unit tests for the backend to be run automatically in the build time
- Provided documentation for the backend endpoints
- Refactored backend to provide a consistent interface to the frontend with all required data

| 10/2017 – 5/2018 | **Software Engineer**, *Amirkabir University ICT Research Center*, part-time job, Internet of Things Project. |

Tech. Stack: Python, MQTT, Mongo DB, Postgre SQL, Github, Open Project
Responsibilities: Research and development, documentation

- Designed and implemented a database performance comparison experiment
- Developed backend APIs with Flask
- Automated Email sending using MQTT

| 6/2014 – 6/2015 | **Android Developer**, *6th Solution*, full-time job. |

Native Android Application Development, Apps: UniqueWidget, Weather360
Tech. Stack: Java, Android, APIs, SQLite
Responsibilities: backend development, Agile methods

- Implemented backend core for retrieval and storage of data using APIs
- Researched and applied Android libraries for improvement

Education

4/2019 – 12/2024 (expected) — **Computer Science - PhD**, *University of Groningen, Netherlands*, Information Systems Group, Area: Business Process Management.

- Project title: Run-time Process Performance Monitoring and Improvement
- Gained knowledge and expertise in the area of predictive business process monitoring and adaptation
- Developed research and communication skills

Specialized Courses: Process-Aware Information Systems, Process Mining

9/2015 – 7/2018 — **Software Engineering - Master of Science**, *Amirkabir University of Technology, Iran*, Final thesis: Author Clustering on Short Persian Texts, 17.19/20 (CGPA 3.63).

- Published a scientific paper in Business Intelligence Systems (miproBIS)
- Achieved good marks as an exchange student at University of Passau, Germany

Specialized Courses: Text Mining, Advanced Topics in Information Retrieval and Web Search

9/2011 – 9/2015 — **Information Technology Engineering - Bachelor of Science**, *Amirkabir University of Technology, Iran*, Final thesis: Text Similarity Measurement, 17.89/20 (CGPA 3.82).

- Learned OOP and developed a game with Java
- Learned web development technologies and developed using HTML/CSS, JS, JQuery

Specialized Courses: Data Mining, Artificial Intelligence, Software Engineering

Technical & Soft Skills

Programming	Python, Java, JavaScript
Data	SQL, APIs (Flask/Django), Data Modeling
Databases	MySQL, MongoDB, SQL Server, PostgreSQL
DevOps	Azure DevOps, Git, Docker, Agile
Data Analysis	Azure Databricks, Jupyter Notebooks, Scikit-learn, Weka, Camunda, Apromore
Concepts	RDBMS, NoSQL, Machine Learning, NLP, CI/CD, Design Patterns, UML, Object Oriented
Soft Skills	Desire to learn, Research, Problem-solving, Planning, Communication, Critical-thinking, Adaptability

Languages

English	Full Professional Proficiency - C1
Dutch	Limited Working Proficiency - B1/B2