

# Arash Yadegari

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## 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**, *6<sup>th</sup> 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

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## Education

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

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## 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

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## Languages

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