BABAK H KARGAR

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Montreal, QC

SKILLS

Programming: Python, R, C#
Database: Data Modeling, SQL Server, MySQL, SQLite, MongoDB, PostgreSQL
Cloud Platforms: Azure (Azure Data Factory, Azure Functions), AWS (Lambda, S3, CloudWatch, SNS, ECR)
BI/DevOps Tools: PowerBI, Excel, Docker, Git, Jenkins
Project Management: Agile, Kanban
Other: Machine Learning, Microsoft Azure, Image Processing, Computer Vision, Linux, Problem-solving

EXPERIENCE

The Data Cooks, Amsterdam, Netherlands   January 2022 – July 2024
Data Engineer/Scientist

- Developed and optimized AI-driven models for product recommendations, customer segmentation, and sales forecasting, achieving a 20% improvement in marketing efficiency and a 15% increase in sales prediction accuracy.
- Designed and implemented scalable data pipelines and marts using SQL, Azure Functions, and Databricks, reducing data processing time by 30%.
- Automated data workflows with Azure Data Factory, enhancing operational efficiency and data accessibility.
- Collaborated with cross-functional teams to deliver data solutions, from concept to production, improving decision-making and reducing operational costs by 10%.
- Developed dashboards in PowerBI, significantly improving data visibility and reporting speed.
- Created a competitor price monitoring tool using Python, enhancing competitive strategy.

Vrije Universiteit van Amsterdam, Amsterdam, Netherlands   2021
Teaching Assistant

- Assisted in the "Evolutionary Computing," "Learning Machines," and "Embodied AI" courses.
- Helped students solve problems and prepared course materials.
- Supervised 15 students on research related to evolutionary robotics.

IT and Business Analytics Ltd, London, UK   2018 – 2019
Freelance Data Engineer — Consultant

- Analyzed and developed an ERP system using MariaDB and Python.
- Implemented AWS Lambda functions for various data processing tasks.

Farzaneh Image Processing Company, Tehran, Iran   2017 – 2018
Data Engineer

- Extracted, interpreted, and analyzed data to identify key metrics.
- Created visually impactful dashboards for data reporting.
- Presented bi-weekly data analysis findings to optimize operational costs.
- Utilized AWS S3 and CloudWatch for data storage and monitoring.

Novin Abr e Persian, Ahvaz, Iran   2015 – 2016
Freelance Application Programmer

- Designed and developed a warehousing application using C#, Microsoft SQL Server, and DevExpress report design tool.

Vista Energy Oxin, Ahvaz, Iran   2015
Freelance Web Programmer

- Designed and implemented a dynamic website using PHP, HTML, CSS, JavaScript, and MySQL.

NISOC, Ahvaz, Iran   2014
Maintenance and Development Intern

- Maintained and repaired the network.
- Developed an application to record gasoline usage using C#, Microsoft SQL Server, and DevExpress.
- Analyzed gasoline consumption using Knime Application.

EDUCATION

Vrije Universiteit van Amsterdam, Amsterdam, Netherlands   2020 – 2023
Researcher in Evolutionary Robotics

Azad University of Tehran, Tehran, Iran   2016 – 2019
Master's Degree in Artificial Intelligence and Robotics

Shahid Chamran University, Ahvaz, Iran   2011 – 2016
Bachelor's Degree in Software Engineering

CERTIFICATIONS

Microsoft Certified: Azure Data Fundamentals *Microsoft* | Issued: Sep 2024 | Credential ID: 70017A3B97BCDDF6

Data Integration with Microsoft Azure Data Factory *Coursera* | Issued: Sep 2024 | Credential ID: OKRGTACAHX5S

Data Storage in Microsoft Azure *Coursera* | Issued: Aug 2024 | Credential ID: QJV72135FCN7

Microsoft Azure for Data Engineering *Coursera* | Issued: Aug 2024 | Credential ID: XRG6Z0JKTQAQ

Ultimate Beginners Guide to Power BI *Enterprise DNA* | Issued: Apr 2022 | Credential ID: 93126333549279

PUBLICATIONS

The effect of selecting for different behavioral traits on the evolved gaits of modular robots
BH Kargar, K Miras, AE Eiben
ALIFE 2021: The 2021 Conference on Artificial Life

A Multi-Brain Approach for Multi-Tasking in Evolvable Robots
E de Bruin, J Hatzky, BH Kargar, AE Eiben
EasyChair

Exploring proprioceptive feedback in the evolution of modular robots
Babak H Kargar, Karine Miras, A.E. Eiben
Accepted for publication in PPSN 2024

LANGUAGES

Persian: Native
English: Professional working proficiency

REFERENCES

Osman Beyaztas
CEO, The DataCooks B.V.
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Saeid Mehr alizadeh
Senior Specialist Data Engineer, Nederlandse Loterij
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