

ZARA REZAIE

Infrastructure Consultant

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Github
LinkedIn

WHO AM I?

I am a Software Developer and Infrastructure Consultant with a research background that fosters analytical and strategic thinking. I am committed to agile methodologies, clean code, and knowledge sharing, and I deliver high-quality, well-architected software solutions. I also hold an AWS Certified Solutions Architect - Associate certification.

Python

Linux

AWS

Github Actions

Terraform

Kubernetes

Datadog

EXPERIENCE

08/2021 – Present **Infrastructure Consultant**

Thoughtworks Germany

Cloud and infrastructure consultant with experience serving leading client organizations. Expertise in architecting AWS solutions, enhancing CI/CD processes, automating with Python and Bash, and Infrastructure as Product (IaP):

German Car Manufacturer (04/2024 – Present)

- enhancing CI/CD processes to improve overall development efficiency
- implementing Python and Bash scripts to enhance automation and streamline processes
- architecting AWS services including S3 buckets, Lambda functions to support scalable and efficient cloud solutions
- enhancing ways of working by contributing to story writing, documentation, and advocating for clean code practices

AWS / Github Actions / Terraform / Python / Scala / Bash

German Car Manufacturer (12/2021 – 03/2024)

- implementing Infrastructure as Product (IaP) to enable development teams to independently set up their infrastructure
- migrating monitoring and logging tech stack (Grafana/Prometheus/Kibana to Datadog) for the whole project
- driving CI/CD migration from GoCD to Github Actions
- creating, maintaining, and optimizing GitHub runners
- managing and optimizing AWS EC2 instances across the entire project
- designing and implementing RDS and application disaster recovery processes

AWS / Kubernetes / Docker / GoCD / Github Actions / Terraform / Prometheus / Grafana / Datadog / Opsgenie / Hashicorp Vault / RabbitMQ / Bash

01/2020 – 01/2021 **Junior Researcher**

FIZ Karlsruhe – Leibniz-Institut für Informationsinfrastruktur

Collaborating with a research team focused on natural language processing, textual data analysis, and knowledge graphs. Highlights include:

- Research on hate speech detection and migration prediction
- Statistical and linguistic analysis of textual social media data
- Creation of a corpus from Twitter data to analyze public opinions
- Data visualization

Python / Linux Text Processing / Pandas / Numpy / NLTK / Scikit-learn / Matplotlib / SPARQL / Twitter API

EDUCATION

2014 – 2017	M.Sc. in Computer Engineering, Software Master Thesis: Sentiment Analysis on Twitter Data using McDiarmid Tree Algorithm- Preprocessing and sentiment analysis of tweets	Imam Reza International University
2008 – 2013	B.Sc. in Computer Engineering, Hardware Undergraduate Thesis: A System for Scheduling University Course Timetabling- Development of a system to automatically schedule university courses using graph coloring algorithm	Ferdowsi University of Mashhad

CERTIFICATIONS

Issued Sep 2024	Machine Learning in Production	by DeepLearning.AI
Issued Apr 2024	AWS Certified Solutions Architect – Associate	by Amazon Web Services

PUBLICATIONS

2020	Entity-based Analytics of Migration Tweets: MigrAnalytics. Proceedings of the ISWC 2020 Posters and Demos Track, co-located with 19th International Semantic Web Conference (ISWC 2020), CEUR workshop proceedings Co-authors: M. Alam, A. Gesese, H. Sack. [Link to Paper]
2017	Sentiment Analysis on Twitter using McDiarmid Tree Algorithm Proceedings of the 7th International Conference on Computer and Knowledge Engineering (ICCKE 2017) Co-authors: M.Jalali. [Link to Paper]

LANGUAGES

Persian - native
English - proficient
German - C1

HOBBIES

I like reading novels, playing board games, cooking, and drawing.