




ZARA REZAIE

Infrastructure Consultant

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

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.