Dadfar Momeni BSc in Computer Engineering

Summary

Enthusiastic engineer with a strong passion for problem-solving. Committed to continuous learning and driven by curiosity, I am particularly interested in data science and software engineering. I thrive on tackling challenges and uncovering insights through data.

Contact Information

Dadfar Momeni
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Research Interests

- Data Science and Data Mining
- Software Engineering and Distributed Systems
- Deep Learning and Natural Language Processing
- Computer Networks, Wireless Networks and Internet of Things

Education

Iran University of Science and Technology (IUST) / BSc in Computer Engineering
Sep 2018 - Feb 2022 | Iran, Tehran
- **Thesis:** Using Topic Detection Techniques to Extract Movies Similarity Based on Their Subtitle
- **Supervisor:** Dr. Hossein Rahmani
- **GPA:** 15.26

Publications

MoGaL: Novel Movie Graph Construction by Applying LDA on Subtitle
M. Nazari, H. Rahmani, **D. Momeni**, M. Nasiri
Journal of AI and Data Mining (JADM), Iran, Apr 2023

Constructing and Analyzing Movie Similarity Graph Based on Topical Analysis of Movie Subtitles
D. Momeni, H. Rahmani, M. Nazari
International Conference on Web Research (ICWR), Iran, Jan 2022

Research Experience

Iran University of Science and Technology (IUST) / Research Assistant
Feb 2022 - May 2023 | Iran, Tehran
Advanced Big Data Analysis Laboratory (ABDAL)
As a research assistant, I used Python and various libraries to collect and analyze over 5,000 movie subtitles and IMDB data. This included graph modeling and analysis, using tools to visualize relationships within the data.
Core Skills:
- **Libraries and Tools:** Beautiful Soup, Scikit-learn, Pandas, NLTK, NumPy, Matplotlib, Keras, Matplotlib, Cytoscape, Gephi
- Web Crawling
- Cleaning and Structuring Data
- Topic Detection
- Data Clustering
- Graph Modeling and Graph Analysis
- Academic Writing

Teaching Experience

Iran University of Science and Technology (IUST) / Teaching Assistant
- Feb 2021 - Jul 2021 | Iran, Tehran
  Operating Systems, Instructor: Dr. Reza Entezari-Maleki (Winter 2021)

- Sep 2018 - Feb 2019 | Iran, Tehran
  Fundamentals of Computer Programing, Instructor: Dr. Reza Entezari-Maleki (Fall 2018)

Professional Experience

Jivegi / Full-Stack Developer
Dec 2022 - Present | Iran, Tehran
Jivegi is an online school specializing in humanities courses, providing students with engaging video and audio content.

- Served as a Full Stack Developer, responsible for designing and maintaining the online platform to optimize user experience.
- Developed an intuitive interface for course navigation and enrollment, ensuring seamless access to educational materials.

Core Skills: PHP, Laravel, MySQL, jQuery, HTML, CSS

Freelance / Full-Stack Developer
Mar 2020 - Oct 2023 | Iran, Tehran
As a Full Stack Developer, I have successfully collaborated with both local and international clients, delivering tailored solutions across various technologies.

Core Skills:
- **Backend:** Python (Django, Flask, FastAPI), PHP (Laravel)
- **Database and Queues:** MySQL, PostgreSQL, Redis, MongoDB
- **Frontend:** React.js, Next.js, jQuery, HTML, CSS

Some of My Projects: KarLand, MaxDrillShop, InspectorFinder

Ayandeh Language Institute / English Teacher
Oct 2022 - Oct 2023 | Iran, Arak
I enjoyed teaching English to pre-intermediate and intermediate students because I love seeing their confidence grow with each lesson. This experience also helps me keep my knowledge fresh.
Core Skills: Communication, Time and Team Management

Key Skills

- **Programming Languages:**
  (Proficient) Python, PHP, C#
  (Familiar with) Go, C++
- **Data Science:** Pandas, NumPy, Scikit-learn, NLTK, Keras, Tensorflow
- **Data Visualization:** MatPlotLib, Seaborn
- **Backend:** Django, FastApi, Flask, Celery, .NET
- **Frontend:** JQuery, React, Next.js, HTML, CSS
- **SDLC:** OO, Unit Test, SOLID, CI/CD, Agile Methodologies
- **OS:** Linux
- **Software Architecture:** Microservice, Monolithic, Clean Architecture
- **Containerization and Orchestration:** Docker, Kubernetes
- **Database:** PostgreSQL, MySQL, MongoDB, Redis, Elastic Search, ClickHouse, Neo4j
- **Message Queues:** RabbitMQ, Kafka
- **Version Control System:** Git
- **Observability:** ELK Stack, Grafana, Sentry

Languages

- **English:** Professional Working Proficiency
- **French:** Elementary Proficiency
- **Persian:** Native

References

Available upon request.

Other Activities

- **Martial Arts:** Engaged in kickboxing and karate training
  Hold a black belt in kickboxing
- **Reading:** Passionate about astronomy and Persian poetry