

Ali Nazari

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Education

Amirkabir University of Technology

B.SC. COMPUTER ENGINEERING (GPA: 3.55/4)

- Thesis: Persian Poetry Generation using Deep Neural Networks (Supervised by Dr. Zeinali)

Tehran, Iran

Oct. 2017 – Apr. 2022

Alborz High School

MATHEMATICS (GPA: 19.86/20)

Tehran, Iran

Aug. 2013 – Sept. 2017

Research Experience

Optimization of Mobile Networks

SUPERVISOR: DR. DIYANAT

Tehran, Iran

Jan. 2023 – Present

- Conducted a review of research papers focused on utilizing drive test techniques for network optimization, gaining a comprehensive understanding of industry trends and best practices
- Actively involved in the development and implementation of innovative solutions that leverage drive test data and satellite imagery to optimize the drive test process, streamlining operations and improving network efficiency
- Explored cutting-edge mobile network architectures like O-RAN, with a specific focus on data-driven approaches for network enhancement, contributing to a forward-thinking research agenda

Persian Poem Metre Detector

SUPERVISOR: DR. ZEINALI

Tehran, Iran

May. 2021 – Nov. 2021

- Curated and organized a comprehensive dataset of Persian poems, meticulously annotated with their corresponding metrical patterns
- Designed and implemented a sequence-to-sequence model specifically tailored for predicting the metrical patterns of Persian poems, utilizing various encoder-decoder architectures, including GRU, LSTM, and incorporating attention mechanism
- Demonstrated a deep understanding of natural language processing (NLP) techniques and neural network architectures, successfully applying them to the intricate domain of Persian poetry analysis
- Prepared research findings for submission to a Persian journal, contributing to the advancement of computational tools for Persian poetry analysis and preservation

Work Experience

Divar

SOFTWARE ENGINEER

Tehran, Iran

Nov. 2022 – Present

- Contributed to Divar, Iran's leading horizontal classified ads platform, catering to over 25 million users and featuring 500,000+ daily ads
- Maintained a high-performance microservice responsible for suggesting similar ads to users, achieving 4,000+ requests per second and ensuring 99.99% uptime
- Designed and developed an innovative vector-based search engine, transforming ad representations and enhancing search result accuracy
- Implemented a robust user penalization system to mitigate fraudulent content, safeguarding the platform's integrity
- Spearheaded the creation of multiple ad review pipelines, optimizing ad quality and enhancing user experience
- Collaborated closely with data scientists to create an image duplication detection system, bolstering the platform's content verification capabilities

Bale Messenger

SOFTWARE ENGINEER

Tehran, Iran

Aug. 2020 – Nov. 2022

- Designed, developed, and maintained a robust event-sourcing service for an Iranian messenger platform with 5M+ users, handling messaging events across Redis, PostgreSQL, and Cassandra at 2,000+ requests per second and ensuring 99.99% uptime
- Implemented caching for reduced API latency, boosting system performance
- Utilized cloud technologies (Helm, Kubernetes, Docker) for agile deployments
- Proactively managed critical incidents to ensure high service availability
- Created a staging environment for streamlined development and testing
- Contributed to hiring 25+ software engineers and mentored junior team members
- Collaborated with data scientists to develop chatbots for efficient customer support

Certificates

Machine Learning Coursera (Stanford University)

Teaching Assistant

Software Engineering II

COORDINATING THE TEAM, DESIGNING PROJECTS, AND GRADING ASSIGNMENTS

Dr. Taromirad

Fall 2021

Principles of Computer Programming lab

PARTICIPATE IN DESIGNING LABORATORY MATERIALS

Dr. Bakhshi

Fall 2020

Projects

Persian Poetry Generator

SUPERVISOR: DR. ZEINALI

Nov. 2021 – Apr. 2022

- Designed and developed a system for generating Persian poems inspired by the styles of classical Iranian poets like Hafez and Sa'di
- Fine-tuned Generative Pre-trained Transformer 2 (GPT-2) to learn the art of poem generation

Message Broker

- Implemented a scalable and highly available message broker system with Golang, supporting message management and routing between diverse clients
- Leveraged PostgreSQL and Cassandra for robust data persistence, ensuring secure storage and efficient retrieval
- Enhanced system monitoring and performance insights through the incorporation of basic logs and Prometheus metrics, allowing for rapid issue identification and resolution

Volunteer Experience

Chairman of Students' Scientific Chapter

Tehran, Iran

AMIRKABIR UNIVERSITY OF TECHNOLOGY

Mar. 2019 – Sep. 2020

- I was elected as a member and head of the management board by students of the CE Department of Amirkabir University of Technology.
- We organized more than 40 events, talks, competitions, festivals, seminars, and workshops.
I took part as an executive and technical committee member and head of many conferences, workshops, festivals, and competitions such as:
 - 19th Amirkabir University of Technology International Collegiate Programming Contest (AUT-ICPC) (Fall 2019)
 - 11th Amirkabir Linux Festival (Winter 2020)
 - 6th Amirkabir Programming League (APL 2019) (Spring 2019)
 - 1st Amirkabir Artificial Intelligence Summer Summit (AAISS 2019) (Summer 2019)

Skills

Programming Languages

Golang, Python (Django), Familiar with JavaScript and TypeScript

Databases

Redis, PostgreSQL, Cassandra, MongoDB, Elastic Search

Message Brokers

RabbitMQ, Kafka

Miscellaneous

Git, Docker, Kubernetes, Helm, Prometheus

Soft Skills

Teamwork, Critical Thinking, Problem-solving, Conflict Mitigation

Data and Machine Learning Tools

Pandas, Numpy, scikit-learn, Familiar with Pytorch and Tensorflow

References

Abolfazl Diyanat

adiyanat@iust.ac.ir

ASSISTANT PROFESSOR, COMPUTER ENGINEERING DEPARTMENT, IRAN UNIVERSITY OF SCIENCE AND TECHNOLOGY

Hosein Zeinali

hzeinali@aut.ac.ir

ASSISTANT PROFESSOR, COMPUTER ENGINEERING DEPARTMENT, AMIRKABIR UNIVERSITY OF TECHNOLOGY

Bahador Bakhshi

bakhshi@gmail.com

SENIOR 5G/6G SYSTEM ARCHITECT (EX ASSISTANT PROFESSOR, CE DEPARTMENT, AMIRKABIR UNIVERSITY OF TECHNOLOGY)

Masoumeh Taromirad

mtaromirad@gmail.com

RESEARCHER, LUND UNIVERSITY (EX ASSISTANT PROFESSOR, CE DEPARTMENT, AMIRKABIR UNIVERSITY OF TECHNOLOGY)

Honors & Awards

B.Sc. Scholarship

Achieved a nationwide ranking of 425 on the Iran University Entrance Exam and received a scholarship

National Students Olympiad

Semi-finalist of Chemistry Olympiad in Iran National Organization for Development of Exceptional Talents