

Ali Keramati

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Education

College of Electric and Computer Engineering, University of Tehran

Tehran, Iran

B.SC. IN COMPUTER ENGINEERING (MAJOR STUDY)

Sep. 2019 - present

- Last Year GPA: 4/4 · CGPA: 18.27/20 (3.83/4)
- Related Courses: Discrete Mathematics(20/20) · Engineering Probability and Statistics(17.8/20)
Data Structures and Algorithms(20/20) · Machines and Language Theory(18.9/20) · Artificial Intelligence(19.1/20)
Foundations of Information Technology(19.6/20) · Internet Engineering(20/20)

College of Psychology and Education, University of Tehran

Tehran, Iran

MINOR STUDY IN EDUCATIONAL SCIENCE

Sep. 2021 - Jul. 2023

- CGPA: 19.3/20 (4/4)
- Related Courses: Educational Psychology(18.75/20) · Introduction to Psychological Tests (specialization) (20/20)
Patterns and Teaching Methods(20/20) · Basics of Qualitative and Quantitative Research Methods(19/20)
The Principles of Lesson Planning(20/20) · Instructional Design(19/20)

Allame Helli 4 High School

Tehran, Iran

DIPLOMA IN MATHEMATICS AND PHYSICS

Sep 2016 - Jul. 2019

- CGPA: 19.66/20
- As a part of the National Organization for Development of Exceptional Talents (NODET)

Research Interests

- Education Technology (EdTech)
- AI in Education
- CSCL
- RL4Ed & ML4Ed & LLMEd
- E-Learning
- Collaborative Learning

Publications

Vatandoust M., Mohajeri M. M., Keramati A., and Ahmadabadi M. N. (2024, expected). "Bridging the Educational Divide: Scaling Deep Learning with AI". (in preparation)

Keramati A., Fallah A., and Taghiyareh F. (2023). "Enhanced Iranian Integrated Healthcare System Through Root Cause Analysis". Iranian Conference on Advances in Enterprise Architecture. Affiliated with IEEE Xplore. (under review)

Research Experience

Under the supervision of Prof. M. Nili Ahmad Abadi

University of Tehran

RESEARCH ASSISTANT AT COGNITIVE SYSTEMS LAB

May. 2023 - present

Focused on revolutionizing education, we developed a new pedagogy model for Deep Learning. Utilizing advanced AI tools and platforms like Google Classroom and Discord, collaborative learning environments were significantly enriched. The integration of AI-based robots further enhanced the learning experience, offering personalized education solutions. For more details, you can explore our [website](#)

Under the supervision of Prof. F. Taghiyareh

University of Tehran

RESEARCH ASSISTANT AT E-LEARNING LAB

Mar. 2023 - present

Engaged in the study of transforming static educational resources into interactive content, my focus lies on meticulous alignment with educational standards such as Bloom's Taxonomy. Utilizing the Avida-ED project, we extract IEEE-LOMs from learning objects and apply genetic algorithms to create highly valuable learning resources.

Teaching Experience

UNIVERSITY OF TEHRAN ACM STUDENT CHAPTER

Game Development Course Mentor SUMMER OF CODE

Jul. 2022 - Oct. 2022

UNIVERSITY OF TEHRAN

Head Teaching Assistant	INTRODUCTION TO SOFTWARE TESTING, PROF. E. KHAMESPANAH	Aug. 2023 - Present
Instructional Designer	DISCRETE MATHEMATICS, PROF. S. MOHAMMADI	Aug. 2023 - Present
Teaching Assistant	DATABASE DESIGN, PROF. A. SHAKERI	Feb. 2023 - Present
Teaching Assistant	ALGORITHM DESIGN, PROF. M. ASADPOUR	Feb. 2023 - Aug. 2023
Teaching Assistant	SOFTWARE ENGINEERING, MRS. F. HALATAEI	Feb. 2023 - Aug. 2023
Head Teaching Assistant	DISCRETE MATHEMATICS, PROF. S. MOHAMMADI	Aug. 2022 - Aug. 2023
Supervising Teaching Assistant	DATA STRUCTURES AND ALGORITHMS, PROF. H. FAILI	Aug. 2022 - Present
Teaching Assistant	ENGINEERING PROBABILITY AND STATISTICS, PROF. B. BAHRAK	Aug. 2021 - Feb. 2023
Teaching Assistant	ELECTRICAL CIRCUIT, MR. M. SEYFIPOOR	Aug. 2021 - Feb. 2022
Teaching Assistant	DATA STRUCTURES AND ALGORITHMS, PROF. H. FAILI	Feb. 2021 - Aug. 2021
Teaching Assistant	DISCRETE MATHEMATICS, PROF. S. MOHAMMADI	Aug. 2020 - Aug. 2022

Academic Projects

Baloot
Internet Engineering

A FULLY FUNCTIONING AMAZON CLONE

A complete implementation of a website from scratch by me and my teammate. This project was developed using Java and Spring for the back-end, and React for its front-end. We have used tools like CI/CD pipelines, JDBC, JUnit, Github Oauth apps, etc.

Certificates

Introduction to EdTech	EDHEC BUSINESS SCHOOL	Sep. 2023
Generative AI with Large Language Models	DEEPLARNING.AI	Jul. 2022
Fundamentals of Reinforcement Learning	UNIVERSITY OF ALBERTA	Aug. 2023
Game Theory	STANFORD UNIVERSITY, THE UNIVERSITY OF BRITISH COLUMBIA	In Progress

Skills

Programming	Advanced: C/C++, Python, Java High Intermediate: C#, SQL, Javascript Intermediate: LaTeX, Verilog, HTML/CSS Familiar: GoLang, R
Technologies	Git, Docker, Kubernetes, Maven, Makefile
Software Engineering	Familiar with multiple design patterns.
Web Development	React, TomCat, Spring
Database	MySQL, Postgres, MongoDB, Neo4j, Redis, ElasticSearch
Operating Systems	Linux (Ubuntu), Microsoft Windows, MacOS

Interests

- Playing Soccer
 - Watching Movies
 - Workingout
 - Playing Guitar

Languages

Persian	Native
English	Proficient
Turkish	Fluent
Arabic	Basic