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*

- CGPA: ?/20 (?/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 Discipline *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)**
- **RL4ED & ML4ED**
- **AI in Education**
- **Multi-agent Systems**

Publications

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

Instructional Designer & Head Teaching Assistant 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	DeepLearning.AI	*Jul. 2022*
Fundamentals of Reinforcement Learning	University of Alberta	*Aug. 2023*

Skills

Programming	Advanced: C/C++, Python
	High Intermediate: C#, Java, Javascript
	Intermediate: LaTeX, HTML, CSS, Verilog
	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