

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(17.8/20) · 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)
- AI in Education
- RL4ED & ML4ED
- Multi-agent Systems

Publications

Research Experience

Under the supervision of Prof. M. Nili Ahmad Abadi

University of Tehran

RESEARCH ASSISTANT

May. 2023 - present

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Under the supervision of Prof. F. Taghiyareh

University of Tehran

RESEARCH ASSISTANT

Mar. 2023 - present

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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. BAHRAM

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

Academic Projects

Smart Debt Handler

Cryptocurrency

A SMART CONTRACT MADE USING SOLIDITY

A smart debt handler similar to Splitwise, which tracks users' debts and updates them based on the loops users create between each other.

BTC Address Maker

Cryptocurrency

AN ADDRESS MAKER MADE USING PURE PYTHON

This project was developed to further understand the math and explicit details of creating a key pair. This project can make any kind of famous key pairs in either the test net or the main net.

FTP Server

Computer Networks

A FULLY FUNCTIONING FTP SERVER

A fully functioning FTP server with many capabilities implemented in C++ that uses socket programming to communicate with clients at a low level.

IEMDB

Internet Engineering

A FULLY FUNCTIONING IMDB 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.

Network Function Simulation

Computer Networks

A SIMULATION OF NETWORK FUNCTIONS

A complete simulation of network functions created using C++. It supports various network components and uses multi-threading to run the simulations simultaneously.

Multi-Threaded Prediction

Computer Networks

A MULTI-THREADED C PROGRAM THAT PREDICTS PRICES BASED ON TRAINED REGRESSION DATA

This project was created to toy with multi-threading concepts and to get more familiar with them.

Certificates

Machine Learning Engineering for Production (MLOps) Specialization DEEPLARNING.AI

Aug. 2022

Natural Language Processing Specialization DEEPLARNING.AI

Jul. 2022

AI for Medicine Specialization DEEPLARNING.AI

May. 2022

Generative Adversarial Networks (GANs) Specialization DEEPLARNING.AI

May. 2022

Deep Learning Specialization DEEPLARNING.AI

Feb. 2022

Machine Learning STANFORD UNIVERSITY

Feb. 2022

Fundamentals of Reinforcement Learning UNIVERSITY OF ALBERTA

Aug. 2023

Skills

Programming

Advanced: C/C++, Python
Intermediate: C#, Java, Javascript, LaTeX, Verilog
Familiar: GoLang, HTML, CSS, 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