

MOHAMMADREZA QADERI

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GitHub

LinkedIn

EDUCATION

Amirkabir University of Technology
5th Year, BS Degree
Department of Computer Engineering

Sept 2017 - Present
Overall GPA: 17.89/20

Shahid Beheshti High School
Diploma of Theoretical Mathematics and Physics

Sept 2013 - Sept 2017

PROFESSIONAL EXPERIENCE

Full Stack Developer at GradientDp!

Mar 2022 - Dec 2022

Make and Deploy Paper Trading With all needed extension for Iran stock, designed and developed event dispatching services based on Request and Response, Deploy and maintain services on docker and kubernetes.

AI Trainee at Advanced Technologies Development Research of Institute of Sharif university of technology

Aug 2019 - Sept 2020

Video Swin Transformer to recognize the video behavior with Machine Vision. we advocate an inductive bias of locality in video Transformers, which leads to a better speed-accuracy trade-off compared to previous approaches which compute self-attention globally even with spatial-temporal factorization.

Backend Developer at Snapp!

March 2019 - Aug 2019

Designed and implemented Micro services and distributed system.

Backend Developer at Hamyad Company StartUp

Nov 2018 - March 2019

Designed and implemented Micro services and distributed system.

HONORS AND AWARDS

- National Countrywide University Entrance Exam(aka Konkour), Iran *2017*
Rank top 0.1% in among more than 170,000 participants.
- 2nd round in the 34th Period of Iran Mathematics and Computer Olympiads *2016*
- 2nd round in the 33th Period of Iran Mathematics and Computer Olympiads *2015*

NOTABLE PROJECTS

Paper Trading

Iranian Market for noob Trader for understand and Test the strategi for trade in real market.

Video Swin Transformer

Video Swin Transformer to recognize the video behavior with Machine Vision (base on this lecture)

Search engine

Developing a search engine for retrieving news documents. Both statistical and word embedding approaches are used for answering users' queries. (Information Retrieval course project)

Flapy Plane

Designing an evolutionary algorithm that learns to play a game in 3 different modes. After some generations of playing, it can play for an eternity without losing. (Principles of Computational Intelligence course project)

Handwritten Digit Recognition

Implementing a fully connected ANN from scratch through mathematical calculations with Numpy and trained the model based on MNIST handwritten digit dataset. (Principles of Computational Intelligence course project)

Super Mario Bros

Building a music player application in Java similar to Spotify with its real properties like creating playlists, showing music multimedia, and sharing music between friends. (Advanced Programming course project)

Message Broker

Creating a text messenger with multiple features between individual clients by using Python Socket library. (Computer Networks course project TA's responsibility)

TEACHING ASSISTANT EXPERIENCE

Head TA, Computer Networks, M. Sabaei	<i>Fall 2022</i>
Head TA, Startup Development, S. H. Ghanadpour	<i>Fall 2022</i>
Data Mining, M. Amirmazlaghani	<i>Fall 2022</i>
Head TA, Web Engineering, S. P. Alvani	<i>Fall 2022</i>
Microprocessor and Assembly, H. Frabeh	<i>Fall 2022</i>
Head TA, Computer Networks, M. Sabaei	<i>Spring 2022</i>
Web Engineering, S. P. Alvani	<i>Spring 2022</i>
Head TA, Operating System, S. A. Javadi	<i>Fall 2021</i>
Data Structure, H. Hoorfar	<i>Fall 2021</i>
Design Algorithm, A. Bagheri	<i>Fall 2021</i>
Advance Programming, E. Edalat & A. Kalbasi & H. Zeinali	<i>Spring 2021</i>
Advance Programming, E. Edalat	<i>Fall 2020</i>

RELEVANT COURSES

University Major Courses: Theory of Machines and Languages, Principles of Cloud Computing, Computer Networks, Web Programming, Data Communications, Internet of Things, Data Mining, Robotics, Principles of Computational Intelligence, Information Retrieval, Introduction to Bioinformatics, Research and Technical Presentation, Startup Development

SKILLS AND QUALITIES

Programming Languages: Expert in C, Python. Working knowledge in Go, C++, Javascript, Java, Php, SQL, \LaTeX .

Libraries: Expert in Redux. Working knowledge in Numpy, Pandas, jQuery, D3.js.

Frameworks: Expert in Django, React JS. Working knowledge Laravel, Angular, React Native

DevOps: Expert work with Docker. Developed some modules for Kubernetes. Working knowledge in Git, Linux, Bash.

Software Engineering: Familiar with object-oriented design patterns, concurrency patterns, functional programming, and procedural programming.

Languages: English (Full professional proficiency), Persian (Native), Turkish (Native).

REFERENCES

Dr. Hamed Farbeh Assistant Professor in Faculty of Computer Engineering at Amirkabir University of Technology Email: farbeh@aut.ac.ir Office: +982164542750

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