


ALIREZA KAVIAN

COMPUTER ENGINEER

 alireza-kavian.github.io

alireza.kavian7@gmail.com 

SUMMARY

Diligent and self-motivated developer interested in both implementation and research. My goal, is to flourish my expertise in a satisfactory and highly motivated way, contributing to the achievement of the general objectives of any teams I work with.

EDUCATION

2015 - 2020

Bachelor of Computer Engineering

K. N. Toosi University of Technology

Tehran, Iran

[World University Rankings 2021](#): 801-1000th


GPA: 3.88/4.00 (18.36/20)

Last two years GPA: 3.82/4.00


Relevant coursework:

Advanced Programming, Theory of Formal Languages and Automata, Operating Systems, Computer Networks, Internet Engineering, Artificial Intelligence and Expert Systems, Algorithm Design, Foundations of Computer Vision

SOCIAL MEDIA

 <https://github.com/alirezakay>

 <https://linkedin.com/in/alireza-kavian>

 https://instagram.com/alireza_kay

CERTIFICATES

Front-End designing from University of Tehran [2017]

Fundamentals of Machine Learning from Quera College [2020]

Certified Ethical Hacker (CEH) from Maktabkhooneh [2020]

RESEARCH INTERESTS

Web Development

Cyber Security

Natural Language Processing

Computer Vision

- ❑ **Top-Ranked student of BSc. graduating class**
- ❑ **BSc. Dean's list** [2017-2018]
- ❑ BSc. Excellent students' scholarship from Kanoon Farhangi Amoozesh [2018-2019]
- ❑ Full Tuition Fee Waiver Scholarship from K. N. Toosi University of Technology
- ❑ Front-End winner at Quera connect challenge [2018]
- ❑ Ranked within the top 1% of Iranian University Entrance Exam for Bachelor's Degree in Computer Engineering

SOME PROJECTS

- ❑ **Rational forex agent implemented with RL and NLP methods { BSc. THESIS }**
[2019-2020]

In my bachelor's thesis, I decided to work on forex trading strategies, using machine learning approaches. i.e. reinforcement learning methods and sentiment analysis. I've done it alongside my colleague and I almost worked on the natural language processing part so that I gained much more experience in machine learning field.

- ❑ **Stranger Things Stuffs, a web application utilized by AI/ML**
[2019-2020] <https://strngr-thngs.github.io>

It's a web application with the flavour of "stranger things" tv series. This website has three major parts. In the first part, users can take a test and see who do they look like the most from the cast. In the second part, the users can send their face photos to be recognized and be matched with the cast. In the last part, they can generate artistic avatars with their own faces. Neural networks, convolutional neural networks and computer-vision approached are used in this project.

- ❑ **Web-based courseware system (TCS4CE)**
[2018] <https://alirezakay.github.io/showcase/y3/tcs4ce/>

My first major ReactJS project was about implementing a courseware system with having the ability of compiling and autoscoring codes. I was a team-leader of a trio. My main tasks were front-end development and server configuration.

- ❑ **Regex to DFA using syntax tree**
[2017] <https://github.com/alirezakay/RegexToDFA>

A Java project of implementing an efficient algorithm for converting regular expressions to DFAs and checking whether it accepts an input string or not.

WORK EXPERIENCES

2016 - 2020

Undergraduate Teaching Assistant

K. N. Toosi University of Technology

Tehran, Iran

- ❑ Foundations of computer vision (Dr. B. Nasihatkon)
- ❑ Assembly language x86 intel language (Dr. B. Nasihatkon)
- ❑ Computer fundamentals & programming in C (Dr. A. Nikanjam & Dr. B. Nasihatkon)
- ❑ Compiler (Dr. S. Sedighian Kashi)
- ❑ Theory of language and automaton (Dr. S. H. Khasteh)

2019 - 2020

Project Lead Developer

Vorna Decor (Vorna Tech subset)

<https://vornadecor.com>

Tehran, Iran

- ❑ Team management.
- ❑ Front-End development. (NextJS, MUI)
- ❑ Back-End debugging. (Python Flask, MySQL)
- ❑ Server configuration management. (Linux Server)
- ❑ Maintenance.

2017 - 2020

Group Founder

Brilacasck (self-employed)

<https://brilacasck.github.io>

Tehran, Iran

- ❑ Implement several projects almost for either learning or fun.
- ❑ Install and configure HTTP servers and associated operating systems.
- ❑ Research, document, or select alternatives for web architecture or technologies.

SKILLS

Web Development

HTML

CSS/SCSS

JavaScript

jQuery

ReactJS

Bootstrap

MaterialUI

NodeJS

FlaskPy

PHP

MySQL

MongoDB

Programming and Machine Learning

Python

Java

C/C++

Assembly (x86)

VHDL

Matlab/Octave

VBA

Numpy

TF/Keras

Open-CV

Scikit-Learn

Matplotlib

Pandas

Linux

Git

Docker

Android (Java)

Industrial Knowledge and Others

Team Leadership

Full-Stack Development

SEO

Network Configurations

Agile Dev

Scripting

ML Fundamentals

CEH Fundamentals

LANGUAGE

- ☐ **English** (Full Professional Proficiency)
TOEFL: To be taken soon..
Reading: xx Listening: xx Speaking: xx Writing: xx
- ☐ **Arabic** (Limited Working Proficiency)
- ☐ **Farsi** (Native)

HOBBIES

- ☐ Watching Movies & TV Series
- ☐ Watching Documentaries
- ☐ Playing Soccer
- ☐ Going to the Gym