# Alireza Kavian

## Computer Engineer

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*I'm a computer engineering student.*
*Besides studying, I do learning software development by various technologies (self-studying).*
*My favourite field of study contains AI, Network, Security and Software Engineering.*
*I am interested in **Front-end** Development and also it's my major skill.*
*I love **Team-Working**.*
*I gained experience through various projects of University in several fields of #CE*
*I'd like to expand my experiences, every day :)*

## EXPERIENCE

### Brilacasck
*Jul 2017  -  Present*

#### Chief Execution Officer

**Brilacasck**

A self-employed group, working in the way of Agile development.

In **2017** I founded this company alongside my friend @soheilch.
To gain more experience, we've done various projects in different fields of our courses together at university.
Then after a year with another friend ours (@amirhkh), we did extend our team.
After that, we are all a young and small team with full of creativity and incentives.

### Ysorkh
*Jun 2018  -  Present*

#### Developer Internship

**Ysorkh**

A company provides network services to clients.

I've got my internship here as a developer in the fields of **Network/Web Security**, **Web SEO** and **Professional Web Development**.

## EDUCATION

### K. N. Toosi University of Technology
*2015 - Present*

#### Bachelor's degree in Computer Engineering,

KNTU [Tehran, Iran]
In 2015, I'd got entered the university with great inducements for progressing.
Till now,
my total average grade has been: **18.44** ( of 20 )
my GPA has been: **3.81** ( of 4 ); **Dean's list** for a year.

## SKILLS

- **Industry Knowledge**
  - Front-End Development
  - Web Development
  - Software Engineering
  - Agile Development
  - AVR Programming
  - PhotoShop
  - 3D Max
  - Microsoft Office ( powerpoint - word - excel )
- **Tools And Technologies**
  - Javascript
  - CSS
  - HTML
  - JQuery
  - ReactJS
  - NodeJS

- React-Native
- AngularJS
- Bootstrap
- Linux
- Git
- PHP
- SQL
- Java
- Python
- C
- C++
- Intel X86 Assembly ( NASM )
- AVR Assembly
- Android
- Matlab
- VHDL
- **Others**
  - Scrum Project Management
  - Team Management
  - Soccer ( GoalKeeping | Defending )
  - Ping-Pong

## CERTIFICATIONS

### Web Designing (Front-End)
*November 2017*

University Of Tehran

View

skills' learnt:

- HTML

- CSS

- javascript

- jquery

- Bootstrap

- Responsive Design

### PHP Tutorial Course
*May 2017*

Sololearn

License 1059-1991903

### C++ Tutorial Course
*Dec 2016*

Sololearn

License 1051-1991903

### Java Tutorial Course
*Dec 2016*

Sololearn

License 1068-1991903

## VOLUNTEER EXPERIENCE

### K. N. Toosi University of Technology
*Oct 2017 to Jan 2018*

Science And Technology

Role: **Undergraduate Teaching Assistant**

Course: Theory of Language and Automaton

Professor: Dr S. H. Khaasteh

### K. N. Toosi University of Technology
*Feb 2018 to Jun 2018*

Science And Technology

Role: **Undergraduate Teaching Assistant**

Course: Compiler

Professor: Dr S. Sedighian Kashi.

## K. N. Toosi University of Technology
*Feb 2018 to Jun 2018*

Science And Technology

Role: **Undergraduate Teaching Assistant**

Course: Assembly Language (x86 Intel assembly language)

Professor: Dr B. Nasihatkon

## K. N. Toosi University of Technology
*Oct 2018 to Jan 2019*

Science And Technology

Role: **Undergraduate Teaching Assistant**

Course: Computer Fundamentals And Programming In C

Professors: Dr A. Nikanjam and Dr B. Nasihatkon

## PROJECTS

### Simulating A Simple Text Editor With C Language
*Term 1 - 2015*

https://alirezakay.github.io/showcase/term1

Using c/c++ and also BGI graphical library for my first main programming major project.

### Simulating Graphical Plant Grwoth With Java
*Term 2 - 2016*

https://alirezakay.github.io/showcase/term2

Using OOP (object-oriented programming) in Java and also graphical java framework: JavaFX

### Implementing DFS/BFS Algorithms With Java
*Term 2 - 2016*

https://alirezakay.github.io/showcase/term2

Using Java/JavaFX to commit this algorithms to a non-directed graph

### Implementing A Simple Java Parser With Java
*Term 3 - 2016*

https://alirezakay.github.io/showcase/term3

A simple compiler for Java for detecting typical errors using CFG (context-free grammars) and CYK algorithm.

### Implementing A Graphical Chess Game With Java
*Term 4 - 2017*

https://alirezakay.github.io/showcase/term4

A nearly pleasant graphical chess game implemented with Java language and using JavaFX & JavaAWT.
Using algorithms: min-max-tree & alpha-beta-game-tree

### Simulating A Plenary CPU Using MIPS Concepts With VHDL
*Term 4 - 2017*

https://alirezakay.github.io/showcase/term4

A MIPS-like processor implemented in VHDL language. ( RISC CPU )

### Creating A Full Compiler With Java
*Term 5 - 2017*

https://alirezakay.github.io/showcase/term5

Using compiler concepts in Java/JavaFX to create a complete compiler for parsing any languages you want to invent.

### Creating An Online Shopping Website Using MySQL And PHP
*Term 5 - 2017*

https://alirezakay.github.io/showcase/term5

A website like digikala
Implemented for the course 'Database'.
Using PHP, MySQL, Apache, Bootstrap

### Simulating Micro Processor Communication With SystemC Language
*Term 6- 2018*

https://alirezakay.github.io/showcase/term6

Communication between microprocessor and accelerator with shared memory in a bus context.
Using SystemC language for hardware-software co-design simulation.

### Tiny Courseware System For Computer Engineers ( TCS4CE )
*March 2018 to June 2018*

https://alirezakay.github.io/showcase/term6

Using

- React.JS
- Node.JS
- Express.JS
- MongoDB

This project was going to be implemented for the course **Software Engineering** in a web context.

I started implementation alongside my two other **teammates**. a trio team.

It was a good chance to expose the result of this project to the authorities of our college.

This project is a system for creating courses by teachers / compiling and running codes by students and get a score at the same moment.

### Regex To DFA

https://github.com/alirezakay/RegexToDFA

Converting regular expression to DFA directly with syntax-tree in Java

### My Personal Website

https://alirezakay.github.io

I've developed my own website in my early time of web programming.

It needs better performance, style, UI and UX.

One day I will change it to a better one with react!!!

### Brilacasck Website
*Jan 2018 - Present*

https://brilacasck.ir

I've developed a full website of our group: Brilacasck

Just search at google: brilacasck

consists of:

https://brilacasck.ir

https://about.brilacasck.ir

https://blog.brilacasck.ir

https://showcase.brilacasck.ir

https://handyman.brilacasck.ir

https://tcs4ce.brilacasck.ir

### RP-APP
*Aug 2018*

https://github.com/alirezakay/rp-app

create a react-php app with PHP live dev server - use PHP at the back-end, react at the front-end

## LANGUAGES

**Persian** (Native), **English** (Professional working proficiency), **Arabic** (Limited working proficiency), **German** (Elementary proficiency)

## HONORS

### Front-End Winner @ Quera Connect
*Aug 2018*

Iran Quera

First place at Quera Connect 10 - Front-End Challenge (with award)
https://quera.ir/course/assignments/5569/scoreboard/

### Scholarship for Excellent Students @ K. N. Toosi University of Technology
*Feb 2018 - 2019*

Kanoon Farhangi Amoozesh (Ghalamchi)

http://en.kanoon.ir