

# Alireza Afzal Aghaei

## junior programmer



I started coding at 17 by designing web pages for some Persian blogs. When I applied for university, I learned desktop application programming particularly with Python in both automating daily tasks and educational settings. Along with Python, I learned C, C++, C, and Matlab. from the 3rd year of university, I migrated from Windows to GNU/Linux operating systems. I started with Ubuntu 16.04 and then migrated to Manjaro Linux with KDE desktop. Currently, As a master student of scientific computations, I am using Python and Maple especially for extending machine learning methods for solving integral equations.



### Personal info

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#### Address

Boys Dormitory, Daneshju Blvd, Velenjak, Tehran,  
Iran

#### E-mail

[alirezaafzalaghaei@gmail.com](mailto:alirezaafzalaghaei@gmail.com)

#### Marital status

Single

#### LinkedIn

[linkedin.com/in/afzalaghaei](https://linkedin.com/in/afzalaghaei)

#### Gitlab

[gitlab.com/alirezaafzalaghaei](https://gitlab.com/alirezaafzalaghaei)

#### Quera

[quera.ir/profile/alireza25](https://quera.ir/profile/alireza25)

#### Phone

+98 937-622-4365

#### Date of birth

07 Jun 1996

#### Military status

Educational Exemption

#### GitHub

[github.com/alirezaafzalaghaei](https://github.com/alirezaafzalaghaei)

#### Stackoverflow

[stackoverflow.com/users/4348709](https://stackoverflow.com/users/4348709)

#### Telegram

[t.me/conficker](https://t.me/conficker)



### Experience

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Oct 2018

#### Teacher Assistant

Nov 2018

*Shahid Beheshti University*

Fundamentals of programming

Sep 2015

#### Teacher Assistant

Mar 2018

*Damghan University*

Fundamentals of programming, Advanced programming and Data structures



## Education

Sep 2018  
present

### School of Data science and computer, Shahid Beheshti University, Iran

*Master of Science, Computer science, Scientific computation*

Thesis: Extending machine learning algorithms for solving Fredholm integral equations,  
Supervised by Koroush Parand

Sep 2014  
May 2018

### School of mathematics and computer sciences, Damghan University, Iran

*Bachelor of Science, Computer science. Outstanding student, Superior grade 19.35*

Thesis: Solving Fredholm integral equations of the second kind using parallelized modified cuckoo optimization algorithm, Supervised by Hassan Dana



## Skills

### Python

Python 3.x, built-in and scientific modules



### GNU/Linux

Ubuntu, Manjaro, KDE desktop



### Evolutionary Algorithms

GA, COA and SA



### Parallel Computation

Familiar with OpenMP, MPI, Cuda



## Other skills

### Matlab, Maple

Basic knowladge



### Web Design

HTML, CSS, JavaScript, JQuery, Ajax



### Django, Sanic

Basic knowladge about Django MVT and Sanic's asynchronous websocket programming



### C#

Basic knowladge



## Current studies

### Machine learning and Deep learning

Using Deep learning techniques for solving real-world problems

### Scientific computation

Integral Equations, Numertical analysis and numerical linear algebra



## Languages

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*Persian*

Native



*English*

Good at reading, writing



## References

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### **Kourosh Parand**

*Professor of Scientific Computing, Shahid Beheshti University, Department of Computer Science*

k\_parand@sbu.ac.ir

### **Hassan Dana**

*Lecturer at school of mathematics and computer science, Damghan University*

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### **Yasin Alipour**

*In Chair of IT Department at Damghan University*

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