

Alireza Afzal Aghaei

junior programmer



I've started coding at 17 by designing web pages. After applying for university, I switched to desktop application programming, particularly with Python in both automating daily tasks and educational settings. Along with Python, I learned C, C++, C#, and Matlab. Since the 3rd year of university, I migrated from Windows to GNU/Linux operating systems. Currently, as an M.Sc. student, I'm studying machine learning methods and developing them in mathematical applications.



Personal info

Address

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E-mail

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Phone

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Date of birth

07 Jun 1996

Marital status

Single

Military status

Educational Exemption

LinkedIn

linkedin.com/in/afzalaghaei

GitHub

github.com/alirezaafzalaghaei

Gitlab

gitlab.com/alirezaafzalaghaei

Stackoverflow

stackoverflow.com/users/4348709

Quera

quera.ir/profile/alireza25

Telegram

t.me/conficker



Experience

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 Science, 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



Publications

A new approach to the numerical solution of Fredholm integral equations using least squares-support vector regression

K. Parand, A.A. Agahei, M. Jani, A. Ghodsi

Mathematics and Computers in Simulation



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 knowledge



Web Design

HTML, CSS, JavaScript, JQuery, Ajax



Django, Sanic

Basic knowledge about Django MVT and Sanic's asynchronous
WebSocket programming



C#

Basic knowledge





Current studies

Machine learning and Deep learning

Using Deep learning techniques for solving real-world problems

Scientific computation

Integral Equations, Numerical analysis, and numerical linear algebra



Projects

Parallel Cuckoo Optimization Algorithm

Implementation of Parallel COA in C++ [[Source Code](#)]

Keratoconus Detector

Detecting Keratoconus disorder using machine learning and deep learning algorithms

Web-Based music player

A simple web-based music player for a local network [[Source Code](#)]

RSS Reader Chrome Extension

Replace Chrome's new page tab with the latest news [[Source Code](#)]

Electronic Election System

An Electronic Election System written in Django [[Source Code](#)]



Languages

Persian

Native



English



References

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

dana@du.ac.ir

Yasin Alipour

In Chair of IT Department at Damghan University

alipour@du.ac.ir