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.



Address Phone

Boys Dormitory, Daneshju Blvd, Velenjak, Tehran, +98 937-622-4365

Iran

E-mail Date of birth alirezaafzalaghaei@gmail.com 07 Jun 1996

Marital status Military status

Single Educational Exemption

LinkedIn GitHub

<u>linkedin.com/in/afzalaghaei</u> <u>github.com/alirezaafzalaghaei</u>

Gitlab Stackoverflow

gitlab.com/alirezaafzalaghaei stackoverflow.com/users/4348709

Quera Telegram

<u>quera.ir/profile/alireza25</u> <u>t.me/conficker</u>



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



School of Data Science and Computer, Shahid Beheshti University, Iran Jan 2021 present Ph.D, Computer Science School of Data Science and Computer, Shahid Beheshti University, Iran **Sep 2018 Sep 2020** Master of Science, Computer Science, Scientific Computation. Outstanding student, Superior grade 19.19 Thesis: Extending machine learning algorithms for solving Fredholm integral equations, Supervised by Koroush Parand School of Mathematics and Computer Science, Damghan University, Iran Sep 2014 May 2018 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** lacksquareGA, COA, and SA Parallel Computation \bullet 0 0 0 Familiar with OpenMP, MPI, Cuda Other skills Matlab, Maple Basic knowledge Web Design HTML, CSS, JavaScript, JQuery, Ajax PHP

Basic knowledge, Telegram Bot

Basic knowledge of MySQL, SQLite, Redis

Databases

Django, Sanic

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C#

Basic knowledge



Machine learning and Deep learning

Using Deep learning techniques for solving real-world problems

Scientific computation

Integral Equations, Numerical analysis, and numerical linear algebra



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]



Persian

Native

English

Level B1



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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 dana@du.ac.ir

Yasin Alipour

In Chair of IT Department at Damghan University alipour@du.ac.ir