

Ali Asadpoor

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Version: 1.0.0

Skills

- Programming: Modern C++, C, Java, Objective-C, Swift, Python, Perl, PHP, OpenGL, SQL
- GUI: GTK, WebKit, Qt, SDL, HTML, CSS, JS
- Platform: Linux, Windows, Mac, IOS, Android, Microcontroller
- DevOps: Bash, git, docker, cmake, jenkins, gcloud, aws, apache, IIS
- Electronics: Proteus, CodeVision

Work Experience

- Software Engineer II - Amazon - 03/30/2021 to Present - Arlington, VA
 - MS Windows Software Engineer - QOMPLX, Inc. - 03/02/2020 to 03/30/2021 - Reston, VA
 - Implement server-client windows services in C++ using ASIO, OpenSSL, STL
 - Software Engineer - MayStreet, Inc. - 10/07/2019 to 02/29/2020 - New York, NY
 - Implement specialized CLS algorithm in C++ to compare market data
 - Implement WSS client in C++ using ASIO, Beast, OpenSSL
 - Software Development Consultant - Kitestring - 02/25/2019 to 05/30/2019 - Bentonville, AR
 - C/C++, 4690 OS, IBM build tool chain
 - Fix tax calculation for Walmart hypermarkets in Honduras
 - Improve modularity and naming convention
 - Software Engineer - Birch Grove - 05/22/2017 to 02/22/2019 - Dallas, TX
 - DevOps
 - Maintain repository and manage branches
 - Manage configuration to build for different customers
 - Automate the build process
 - Design APIs for http communications
 - Windows Agent, C++, Visual Studio, Build and Deploy to production
 - Implement video recording using Windows Media Foundation
 - Implement .msi signing in IIS server using WIX library in C#
 - Synchronize threads and improve access to critical sections
 - Mac Agent, C++ and ObjectiveC, Xcode, Build and Deploy to production
 - Implement .pkg signing in Linux (Undocumented)
 - Improve async operations in job queues
 - Chrome Agent, JavaScript, Visual Studio, Build and deploy to production
 - Software Engineer - Ott Computer - 01/02/2016 to 04/05/2016 - Guayaquil, Ecuador
 - Design UML model for software template
 - Software Engineer - Veridg - 05/01/2013 to 08/30/2014 - Tehran, Iran
 - Create Indicator app for project management, C++, SQL, Windows, MSSqlServer
 - Advanced cache to minimize traffic and guarantee having up to date information
 - UI based on graph, implement and improve Force-Directed algorithm
 - Match DB structure at runtime (Adding new columns, tables, and foreign-keys didn't need recompile or code change in C++ client app)
 - Software Engineer - AsrGuyeshPardaz - 02/10/2012 to 04/30/2013 - Tehran, Iran
 - Persian text to speech
 - Create a word processor to cover all possible syllables in Persian language with minimum length
 - Implement TTS for Persian date format
 - Software Engineer - JTMA - 02/01/2006 to 10/15/2009 - Tehran, Iran
 - Create a letter management app with network support
 - First version with file sharing
 - Second version with sockets
 - Third version with MSSQL-Server
 - Software Engineer - Teta Pishro - 10/12/2002 to 10/12/2003 - Tehran, Iran
 - Persian OCR, C++, Windows
 - Invent a new algorithm to find alphabets in text using graphs and trees
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Hobbies

- **Thinkora** [C++] Whiteboard app with built-in OCR
 - **Deploy** [C++, libgit2, libssh2] Linux service to checkout, build, test, and deploy software projects
Supported targets: Database, Web Application, Desktop Application, Android App, and IOS App
 - **jsonio** [C++] Open-source library to parse and edit json <https://github.com/virtualmatador/jsonio>
 - **cli** [C++] Open-source library to parse command line arguments <https://github.com/virtualmatador/cli>
 - **Cross** [C++, Java, Swift, HTML, CSS, JS, GTK, Webkit, Soundio]
SDK to create GUI applications for multiple platforms using single code base
Available targets: IOS, Android, Linux, Windows, Mac, and Web
 - **Checkers** [C++, HTML, CSS, JS] Checkers board game
Available for multiple platforms using my **Cross** library www.shaidin.com/checkers
 - **ColorCode** [C++, HTML, CSS, JS] ColorCode board game
Available for multiple platforms using my **Cross** library www.shaidin.com/colorcode
 - **Snake** [C++, HTML, CSS, JS] Simple implementation of snake game on autostereogram video
Available for multiple platforms using my **Cross** library www.shaidin.com/snake
 - **Life** [C++, SDL2, OpenGL4] Conway's Game of Life www.shaidin.com/life
 - **Clock** [C++, SDL2] Digital clock, digital bell sound www.shaidin.com/clock
 - **Depth** [C++, libpng] Generate autostereogram from given pattern www.shaidin.com/depth
 - **Digital Clock** [C, AVR Atmega32] Digital clock with Persian calendar, alarm, timer, and stopwatch
 - **GMaps** [C++] Multi thread maps downloader using http protocol
 - **Topsis** [C++] Calculate formulas with Excel, communication based on COM technology
 - **Traffic** [C++] Interact with ADSL modem with SNMP
 - **Input** [C++] Process body movements using Kinect and generate keyboard events to play games without using keyboard
 - **Track** [Java] Track location of users on the map
 - **ABO Game** [C++, OpenGL2] A game to practice blood types
 - **XO Game** [Java, Bluetooth] Play XO game with other people
 - **Mixed Traffic** [C++] Simulate people and cars on zebra cross in signalized and mixed mode
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Awards

- Ranked 18th at Physics Olympiad - Iran, 2000
 - Ranked 2nd at boarding school admission - Maragheh, Iran, 1998
 - Ranked 7th at boarding school admission - Maragheh, Iran, 1995
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Education

- Computer Science - FALL 2017 (One semester) - Richland College, Dallas, TX
 - Mathematics and Physics - 1998 to 2001 - Saady High School, Tabriz, Iran
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Work Style

- Use the best practices
- Start with research
- Discover hidden patterns
- Take calculated risks
- Make it happen
- Keep it simple

Interests

- Algorithms
- Optimization
- AI
- Robotic
- Cognition

Languages

- Azerbaijani (Mother tongue)
 - Persian (Native)
 - English (Fluent)
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