

Brian Salehi

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# Brian Salehi

## Software Engineer

**Professional Summary** I'm a Linux application and system programmer working on UI applications, 3D graphics programming, image processing and embedded devices using C, C++ and Java programming languages, and many advanced development tools to do my work more effectively and efficiently. I'm also a huge fan of open source and I'm investing some of my time on contributing to it. And finally I have a solid studying background with a strong desire of reading technical and non-technical books.

## Experiences

### Arad Research and Development Company

aradtechs.com

#### Software Engineer

05/2021 - present

Contributed to many projects in a professional team from programming desktop applications, designing user interfaces, programming 3D graphical applications and web services to documenting each of these projects extensively.

### Freelance

milextone.ir

#### Software Engineer, Technical Trainer

03/2019 - 04/2021

I had 11 students from freshman year of college to PhD candidate in Iran, Germany and Poland, teaching programming and administration.

### Manzoomeh Negaran Holdings

seller.ir

#### Software Engineer, Database Specialist

06/2016 - 6/2017

Designed, implemented and maintained the back-end and database services of an industrial webstore.

## Cooperations

### Bioengineering Laboratory

Poland (undisclosed)

#### Software Engineer

08/2020 - present

Consulting technical solutions for development of computational services.

### Sarmad Business Services Company

Iran (sarmadbs.com)

#### System Administrator, Database Specialist

04/2021 - 06/2021

Consulting technical solutions to maintain systems and services.

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## Skills

### Technical Skills

#### C Programming

Linux interface programming and developing high performance services

#### C++ Programming

Writing native C++ programs using STL and recent language standards

#### x86\_64 Assembly Programming

Writing processor specific high performance procedures and data vectorization

#### Qt, QML, JavaScript

Developing full-featured graphical user interfaces for desktops and mobile devices in C++

#### OpenGL, GLSL

3D graphics programming and developing game engines using C++

#### OpenCV

Developing image and video processing applications in only C++

#### Linux Administration, Bash Scripting

Configuring, automating, administering and securing Linux systems and services

#### PostgreSQL, MySQL, MongoDB

Designing, developing and administering relational and non-relational databases

### Tools

#### Git, Docker, Kubernetes

Using Git workflows and applying containerization and continuous delivery

#### GCC, GDB

Using compilation optimization and debugging techniques

#### Make, CMake, CTest, CPack, CDash

Adapting auto-compilation, testing, packaging and monitoring

#### Doxygen, UML, PlantUML

Writing precise tutorial like documentations containing UML diagrams

#### Atlassian CI/CD Tools

Maintaining, testing and documenting code base in Atlassian tools

### Miscellaneous Skills

#### Vim

My default text editor for coding and configuring

#### Python

Using for educational purposes in machine learning

#### LaTeX

Writing documents, specially this resume

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## Education

Islamic Azad University, Tehran North iau-tnb.ac.ir  
*MSc. of Computer Science, Software Engineering* 09/2021 - 06/2023

Islamic Azad University, Tehran East iauet.ac.ir  
*BSc. of Computer Science* 09/2016 - 06/2021

## Certificates

Fanavaran Anisa Ins. anisa.co.ir  
*Embedded Linux* 5/2021 - present

Fanavaran Anisa Ins. anisa.co.ir  
*Linux Application Development* 5/2021 - present

Fanavaran Anisa Ins. anisa.co.ir  
*LPIC-3: Linux Security* 3/2017 - present

Fanavaran Anisa Ins. anisa.co.ir  
*LPIC-2: Linux Networks* 3/2016 - present

Fanavaran Anisa Ins. anisa.co.ir  
*LPIC-1: Linux Systems* 3/2015 - present

Certificate files can be found here: [briansalehi.ir/certs](https://briansalehi.ir/certs)

## Interests

### Technical

Image processing, machine learning, graphics programming, user interfaces, kernel hacking, embedded Linux, software design, algorithms, PCB and hardware design, mathematics, quantum mechanics, philosophy, psychiatry

### Personal

Playing electric guitar, swimming, reading books, watching series, biking, running, hiking

## Languages

### English

Fluent  
I have a strong studying background in English as a proof ([briansalehi.ir/library](https://briansalehi.ir/library)).

### German

Basic  
I am currently learning German to begin studying German books and finding German friends.

## References

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