

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 and C++ programming languages, and a few advanced development tools to do my work as professionally as I can. I'm also a huge fan of open source and I usually spend some of my spare time contributing to open source projects. Last but not least I have a notable discipline to balance out the energy I put in my work and studies in a cyclic manner so that I can always bring new skillset and innovations to work and become more experienced in them.

## 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 programs using STL or Boost and recent language standards

#### x86\_64 Assembly Programming

Writing processor specific high performance procedures and data vectorization

#### Qt, QML, JavaScript

Developing full-featured cross-platform graphical user interfaces

#### OpenGL, GLSL

3D graphics programming and developing game engines

#### OpenCV

Developing image and video processing applications

#### Linux Administration, Bash Scripting

Configuring, automating, administering and securing Linux systems

#### 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 projects to auto-compiling, 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  
*MSc. of Computer Science, Software Engineering* 09/2021 - 06/2023 [iau-tnb.ac.ir](http://iau-tnb.ac.ir)

Islamic Azad University, Tehran East  
*BSc. of Computer Science* 09/2016 - 06/2021 [iauet.ac.ir](http://iauet.ac.ir)

## Certificates

Fanavaran Anisa Ins.  
*Embedded Linux* 5/2021 - present [anisa.co.ir](http://anisa.co.ir)

Fanavaran Anisa Ins.  
*Linux Application Development* 5/2021 - present [anisa.co.ir](http://anisa.co.ir)

Fanavaran Anisa Ins.  
*LPIC-3: Linux Security* 3/2017 - present [anisa.co.ir](http://anisa.co.ir)

Fanavaran Anisa Ins.  
*LPIC-2: Linux Networks* 3/2016 - present [anisa.co.ir](http://anisa.co.ir)

Fanavaran Anisa Ins.  
*LPIC-1: Linux Systems* 3/2015 - present [anisa.co.ir](http://anisa.co.ir)

Certificate files can be found at [briansalehi.ir/certs](http://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, reading books, swimming, biking, running, hiking

## Languages

### English

I have a strong studying background in English.  
(PoC: [briansalehi.ir/library](http://briansalehi.ir/library)).

Fluent

### German

I'm currently learning German to the extent of living in Germany.

Basic

## References

Dr. Farhang Jaryani  
Faculty of Computer Science, Arak University, Iran [fjayani@yahoo.com](mailto:fjayani@yahoo.com)