

Brian Salehi

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Updated: May 24, 2022

# Brian Salehi

## Software Engineer

**Professional Summary** I am a Linux system programmer, having experience in C and C++ programming and using a few scripting languages and development tools. I am interested in open source movement, and I usually spend some of my spare time making open source tools or contributing to open source projects.

## Fields of Expertise

### Linux System Programming

Linux applications and services

### User Interface Development

Designing desktop user interface using Qt framework

## Fields of Studies

### Linux Kernel Programming

Linux device driver development

### Image Processing

Using OpenCV library to process images and videos

### Graphics Programming

Creating 3D graphics scene using OpenGL APIs

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## Experiences

**Prokey Company**  
*Software Engineer*  
Recently joined

*prokey.io*  
**05/2022 - current**

**Arad Research and Development Company**  
*Software Engineer*

*aradtechs.com*  
**05/2021 - 05/2022**

Contributed to and maintained major projects of user interfaces, desktop applications, 3D graphical applications, and web services.

### Training

*Software Engineer, Technical Trainer*

*milextone.ir*  
**03/2019 - 03/2021**

I had 11 bachelor's, master's and PhD level students in Iran, Germany, Poland and United States, teaching programming and administration.

### Manzoomeh Negaran Holdings

*Software Engineer, Database Specialist*

*seller.ir*  
**06/2016 - 06/2017**

Developed the back-end service and database of an industrial webstore.

## Cooperations

### Bioengineering Laboratory

*Software Engineer*

*Poland (undisclosed)*  
**08/2020 - present**

Consulting technical solutions for development of computational services.

### Sarmad Business Services Company

*System Administrator, Database Specialist*

*Iran (sarmadbs.com)*  
**04/2021 - 06/2021**

Consulting technical solutions to maintain systems and services.

## Contributions

Open source contributions will be listed here as soon as they are accepted by open source communities.

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## Skills

### Technical Skills

#### C++

Writing programs using STL and Boost with recent language standards

#### C

Linux interface programming and developing high performance services

#### Python

Advanced scripting, prototyping, and automating with unit tests

#### x86\_64 Assembly

Writing processor specific high performance procedures and data vectorization

#### Qt, QML

Developing full-featured cross-platform graphical user interfaces

#### OpenCV

Developing image and video processing applications

#### OpenGL, GLSL

3D graphics programming and developing game engines

#### Bash

Advanced scripting, prototyping and automating in Linux systems

#### Linux Administration

Configuring, automating, administering and securing Linux systems

#### JavaScript, TypeScript

Using for application user interfaces and web services

#### PostgreSQL, MySQL, MongoDB

Designing, developing and administering relational and non-relational databases

### Tools

#### Git

Using source control professionally along many of development workflows

#### Docker, Kubernetes

Dockerizing and shipping projects using advanced containerization techniques

#### GCC, GDB

Using compiling optimizations and debugging techniques

#### Sanitizers, Valgrind Suite

Using advanced profiling tools along development

#### Make, CMake Suite

Adapting projects to auto-compiling, testing, packaging and monitoring

#### Doxygen, Sphinx, UML, PlantUML

Writing precise documentations containing UML diagrams

### Miscellaneous Skills

#### Vim

My default text editor for coding and configuring

#### LaTeX

Writing documents, including 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

## Interests

### Technical

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

### Personal

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

## Languages

**English** *Fluent*  
I have a strong studying background in English.

**German** *Basic*  
I'm currently learning German to the extent of communicating fluently.

## References

Dr. Farhang Jaryani *fjayani@yahoo.com*  
Faculty of Computer Science, Arak University, Iran