Hossein Salehipour

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Address
No 15, Mojdeh st.,
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Hossein Salehipour

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.

Field of Experties

User Interface Development
Designing mobile and desktop user interfaces using Qt framework

Image Processing
Using OpenCV library to process images and videos

Graphics Programming
Creating 3D graphics scene using OpenGL APIs

Linux System Programming
Designing embedded Linux systems, writing Linux device drivers and services

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.

Training   *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++
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, 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

Bash
Advanced scripting, prototyping and automating in Linux systems

Linux Administration
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 containarization and continous delivery

GCC, GDB, Valgrind
Using compiling optimizations, debugging techniques, and memory checking

Make, CMake Suite
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

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**

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   Fluent
I have a strong studying background in English.

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

References

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