






# Pavel Artsishevskii

Senior Software Engineer / Team Lead

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## ABOUT ME

I am a passionate Software Engineer and a Team Lead with more than 10 years experience in system programming, backend and end-user software development. I have expert knowledge in Linux userspace, C/C++, Python and Bash. Also I have been coding on Go and Java for a while and have considerable experience with UI frameworks like GTK+ and Qt.

During my career I was engaged in developing critical fault-tolerant services for Linux and QNX as well as implementing computer vision algorithms using both classical and deep learning based approaches.

## EXPERIENCE

### MBITION | EXPERT C++ DEVELOPER

Sep 2023 - Current | Berlin, Germany

- Design and development automotive software for Mercedes-Benz;
- Improving subscription management and backend connectivity system;
- Maintaining security-related services for in-car head unit;

### CLOUDLINUX | SENIOR SOFTWARE ENGINEER → TEAM LEAD

Dec 2018 - Aug 2023 | Remote, Turkey

- Managed the software development team (LibCare / QEMUCare / DBCare);
- Implemented support for live-patching C++ libraries and executables;
- Added support for live-patching QEMU, PostgreSQL and MySQL-based databases;
- Enhanced toolchain to support live-patching of binaries built with LTO;
- Added ability to safely patch binaries built without frame pointers or DWARF CFI;
- Backported CVE patches for glibc, OpenSSL, QEMU, MySQL and PostgreSQL.

### CVISIONLAB | SENIOR SOFTWARE ENGINEER → TEAM LEAD

Nov 2015 - Nov 2018 | Rostov-on-Don, Russia

- R&D of pattern recognition and other computer vision algorithms;
- Enhanced detection quality up to 99.98% and increased performance of the automated production control system based on computer vision (Boost, OpenCV);
- Developed a service for searching clothes in online stores by visual similarity using modern approach based on triplet loss and netVLAD (Python, TensorFlow);
- Implemented desktop application for recognizing objects from camera and searching for similar images in a large image database (C++/Qt, OpenCV).

### RTI SYSTEMS | SOFTWARE ENGINEER

Jul 2012 - Oct 2015 | Moscow, Russia

- Ported Linux-based low level software to the QNX RTOS;
- Developed distributed fault-tolerant network services for Linux and QNX on e2k architecture;
- Improved unit and functional test coverage.

## SKILLS

### PROGRAMMING

Proficient:

C • C++ • Python • Bash

Experienced:

Java • Go • x86\_64 Assembly

Familiar:

L<sup>A</sup>T<sub>E</sub>X • HTML • CSS • JS

### LIBRARIES/FRAMEWORKS

Qt • GTK+ • Boost • OpenCV • libuv • libelf • libunwind

### TOOLS/PLATFORMS

Linux • Git • Gerrit • Jenkins • CMake • Meson • Docker

## EDUCATION

### SOUTHERN FEDERAL UNIVERSITY

MASTER'S IN COMPUTER SCIENCE

Sep 2013 - Jul 2015

Fundamental Informatics and Information Technologies

Rostov-on-Don, Russia

### SOUTHERN FEDERAL UNIVERSITY

BACHELOR'S IN APPLIED

MATHEMATICS

Sep 2009 - Jul 2013

Applied Mathematics and Computer Science

Rostov-on-Don, Russia