

Leonid Volnitsky

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SUMMARY

- Computer Vision / OpenCV
- 10+ years of C++/C
- 10+ years of Linux/Unix system administration
- Optimization of CPU intensive applications

EXPERIENCE

Independent remote freelancer and open source developer - 11/2007 - present

Image processing and multiple other projects for HAMRICK.com (optical scanner software)
People Detection in supermarket CCTV videos for FF-Group.org (video surveillance analytics company)
Image and test patterns generation in optical calibration for QUBYX.com (optical equipment)

Yahoo! (contract) Sunnyvale, CA, USA 6/2007 - 11/2007 Technical Yahoo! (Site Reliability Engineer) at MediaOps/finance.yahoo.com division. In addition to Sysadmin role, was responsible for software packaging and configuration management. Implemented use of version control system Yahoo package management. Used tools: Apache, Akamai, GCC/C++, virtual environments, Linux/BSD.

Electronics Arts (contract) Redwood City, CA, USA 3/2007 - 6/2007

System programming, monitoring and system administration in Electronics Arts online division. Managed and monitored game servers clusters. Developed monitoring and resource utilization application.

VISA International (contract) San Mateo, CA, USA 1996-2003

UNIX Senior Systems Administrator, System Programmer and Configuration Manager. Maintained Sierra project development environment. Was responsible for installation and administration of Solaris/HP-UX/Linux, development tool chain, build custom Solaris packages for internal VISA use, automated system administration tasks and installation process.

EDUCATION

- National Technical University of Ukraine (KPI). (EE, Microelectronic Microprocessors)
- SUN Microsystems, course of instruction in: Solaris System Administration, NYC, NY, USA
- HP Educational Services, Mountain View, CA, USA course of study in HP-UX
- USAID/Bangkok, Thailand. Electronic Certification System training

URLS

- Personal website - volnitsky.com
- GitHub - github.com/lvv
- StackOverflow - stackoverflow.com/users/1173542/leonid-volnitsky
- My algorithm of fast sub-string search - volnitsky.com/project/str_search
- My algorithm of background subtraction HBG (computer vision) - goo.gl/JA2L0C
- My algorithm for 2SUM problem - goo.gl/lpFGjw

KEYWORDS / SKILLS

Primary and preferred:

Computer Vision/OpenCV
C++/C, Git, Linux, VIM, GCC/CLANG, Make
Code optimization, Mathematical optimization, Algorithms complexity reduction

Have some experience with:

Machine Learning/ML, Neural Networks/NN, Deep Learning, Statistical Analysis, Classifiers, Raspberry PI, Robot Operating System/ROS, Embedded system, Internet of Things/IoT
Microcontrollers/MCU, Arduino(Atmel megaAVR/ATmega328), STM32, ESP8266, nRF24L01
Guidance Systems, Autonomous Systems, IMU, Kalman/Particle Filter
String/text processing algorithms, NLP, Recommender Systems, Interpolation, Compression
Nvidia Cuda, Vectorization (SSE), OpenMP,
System administrator, Debian, Gentoo, Redhat/Centos, Linux/Unix.
Intel assembler, Python, Bash/SH., Boost, Visualization, QT,
Configuration manager, GIT, Subversion/SVN, SCM, Make, CMake, packaging
Network Administration, iptables, DNS/NIS/Named/Bind/Apache/HTML/CSS, Firewall, NAT, Proxy