



Ernest Deák

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Summary

Computer programmer. Most interested in programming in Perl and Assembly with NASM or the GNU Assembler. I have experience with many programming languages such as C, C++, Lisp (Steel Bank Common Lisp), Python, Javascript(NodeJS), Bash scripting for system automation and a few others.

SOMI Systems projects:

1. Project name: Kerber3
Description: Development and design of a security application based on Webmin + Maintenance of servers via SSH.
Used technologies: Perl, Webmin, SQL, Proxyguard, Sendmail
Position: Programmer, customer support, Linux sysadmin
2. Project name: Kerber Backup Client
Description: Development of a backup application in NodeJS + Fixes for an older version of the same application in C++
Used technologies: Windows backup system, C++, WiX, NodeJS, Qt5, GDB
Position: Programmer

Pantheon Technologies projects:

1. Project name: Unknown
Description: Development of a virtual router/switch with support for Cisco OIDs
Used technologies: Python, Git, Linux Tun/Tap devices, SNMP, Perl
Position: Programmer.
2. Project name: Unknown
Description: Testing of software for stability and bugfixes
Used technologies: Python, Robot Framework, Jenkins, VirtualBox
Position: Software developer in test



Experience

Personal projects

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May 2018 – [current] (3 years)

Nodejs developer

COMPANY: SOMI Systems a.s.

Oct 2017 - May 2018 (8 months)

C++ Developer

COMPANY: SOMI Systems a.s.

Mar 2017 - Oct 2017 (8 months)

Python developer in test

COMPANY: PANTHEON TECHNOLOGIES

Sep 2015 - 2016 (1 year 4 months)

Junior System Administrator

COMPANY: SOMI Systems a.s.

Sep 2014 - Sep 2015 (1 year 1 month)

Helpdesk agent

COMPANY: Manpower

2011 - 2012 (1 year)

Technical support. Communication with the client in english and/or german language.

2009 – 2013



Skills

- Programming
 - Perl
 - Python
 - Javascript
 - nodeJS
 - C
 - C++
 - Ruby (little)
 - Common Lisp
 - [SBCL](#) (Steel Bank Common Lisp)
 - Assembly X86 / X86_64
 - GNU Assembler
 - NASM (Netwide Assembler for X86 a X86_64)
 - [Jasmin](#) (little)
 - JVM Assembler
 - Bash
 - BAT (windows scripts)
 - Scala
 - [OpenGL 3.3+](#)
 - Core
 - Shaders (little)
- Databases
 - SQLite3
 - MySQL
 - PostgreSQL
- CI
 - Jenkins
 - Travis CI
- System administration
 - [FreeBSD](#) (Desktop)
 - Debian (Desktop + Server)
 - Gentoo (Desktop)
 - CentOS (Server)
- Build tools
 - ninja
 - meson (very little)
 - [sbt](#)
 - [perl Module::Build](#)
 - Own install/build scripts in bash based on need
- Virtualization
 - [QEMU](#)
 - amd64
 - AVR
 - ARM (Raspberry Pi)
 - VirtualBox
 - Linux servers
 - Windows Desktop
- Document formats
 - HTML
 - CSS
 - XML
 - [POD](#)
- Version control systems
 - git
 - [rcs](#)
- Other technologies
 - Docker
 - [ZFS](#)
 - lvm
- Knowledge of software licenses
 - GPLv2
 - GPLv3
 - BSD 2-Clause
 - BSD 3-Clause
 - MIT



Tools

- Game engines
 - [Panda3D](#) (Python based)
 - Godot
 - Love2D
 - [Scarli](#) (My own lisp engine)
 - [branchie](#) (Also my own text-based lisp engine)
- Cyber Security
 - [Ghidra](#)
 - Radare2 (little)
 - Objdump
 - [Metasploit](#) (little)
 - Hydra (little)
 - *bininject* (my own perl tool to inject binary files into other binary files)
- Data restoration/recovery
 - Photorec/Testdisk suite
 - frtools (my own perl scripts)
- Office
 - LibreOffice
 - Writer
 - [Freeplane](#) (mind-mapping tool)
 - [changelog](#) (My perl script for managing changelog files)
- Editors
 - Vim
 - Emacs
 - Microsoft Visual Studio Code / VS Codium
 - Sublime
 - [PyCharm](#) (Python IDE)
 - CodeBlocks (little)
 - Microsoft Visual Studio (little)
- GUI
 - Toolkits
 - Qt5 (little)
 - Gtk3
 - Designers
 - Glade
- Graphic design
 - GIMP
 - mtPaint
 - Krita
- Windows tools
 - WiX (little)
 - Cygwin
 - Cmd.exe
 - Powershell (very little)
- Remote desktop
 - VNC Viewer/Tigervnc
 - Windows remote desktop
 - TeamViewer



Spoken languages

- English (native)
- Slovak (native)
- German (intermediate/rusty)