PAVEL TURYANSKIY

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Summary

I'm a software developer and amateur mathematician, based in Russia. Currently interested in functional programming, type theory, building high assurance systems.

Used to do different jobs until I felt comfortable with my general IT experience.

SKILLS AND ACCOMPLISHMENTS

NATURAL LANGUAGES: Russian, English

PROGRAMMING LANGUAGES: Agda, Idris, Haskell, C, Arend, Julia, GNU Octave, Python, x86 asm

(in order of decreasing proficiency)

Programming: have \sim 5 years of Haskell experience

contributing to Agda project

maintaining a custom stdlib for Cubical Agda in love with effect systems and dependent types have a bit of experience with firmware modding

Security: know how to use logical programming to solve security problems like

authorization, information flow analysis

can do something resembling really secure boot with coreboot +

HEADS and TPM

have basic experience with SIGINT

NETWORKING: designed and overseen the construction of ethernet networks (up to

a hundred of PCs, mainly copper and a bit of fibre)

designed and overseen the construction of virtualization networks designed and developed a simple scalable VoIP system using Asterisk

+ custom call routing in LUA

VIRTUALIZATION: designed, built and maintained virtualization clusters using VMware

ESXi and Proxmox

transitioned legacy infrastructures to private cloud

OS: operated Windows Server (2003 - 2012R2), FreeBSD, Linux (Debian,

CentOS) in production

personally used QubesOS, Void Linux, OpenBSD, toyed with seL4,

KasperskyOS

Translations: Category Theory for Programmers by Bartosz Milewski, see Russian

subtitles

INTERESTS

MATHEMATICS: studying random stuff from nLab and 1Lab

have hands-on experience with HoTT and its' application to programming dream of multimodal HOTT with linearity, cohesion and guarded recursion studied topology and differential geometry under Iskander Taimanov

completed Robert Ghrist's Calculus: Single Variable

HARDWARE: Thinkpad tinkering

still want to learn building UAVs and autonomous weapons

SEP 2021-NOW (currently employed)

Software Developer at Kaspersky Lab, Russia

writing Haskell and Agda for a living

DEC 2019-Aug 2021 (1 year, 9 months)

Software Developer at Tinkoff Bank., Russia

helped maintain and develop Tinkoff Travel backend (written in Haskell) developed stream processing software using Apache Kafka learned to use effect systems for structuring Haskell code, in particular, fused-effects

had to use legacy protocols to communicate with GDS

Oct 2017–Jul 2019 (1 year, 10 months)

Information Security Engineer at FSUE NPP Gamma, Russia

was on duty in Samara Arena during FIFA 2018 world cup as a technical security consultant

had done some PowerShell automation, physical fleet configuration management (w/Saltstack)

operated Rohde&Schwarz and Agilent spectrum analyzers through Python + NIVISA

designed computer networks

had to work with obscure equipment and software

JAN 2017-Aug 2017 (8 months)

Network Engineer at Sibirskie Seti Ltd., Russia

configured equipment of the following vendors: Extreme Networks, Juniper, Cisco, D-Link, TP-Link

wrote network monitoring scripts for Nagios using bash/Python performed equipment and network testing with Python + scapy communicated with NOCs of other ISPs

got an L2 loop in the management network once

SEP 2016-DEC 2016 (4 months)

Engineering Technician at ITVaksa Ltd., Russia

everything from physical cabling to small business network/system design

EDUCATION

SEP 2014–MAY 2018 (4 years)

BS in Informatics at SibSUTI, Novosibirsk, Russia