

Šimon Lukašík

CONTACT INFORMATION

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PROFILE

Versatile software engineer with a broad range of interests and experience.
After all those years he still loves to code and create.

PROFESSIONAL EXPERIENCE

Red Hat, Inc. - Technical Staff at CTO office **September 2019 till Now**

- Member of technical staff, Office of the Chief Technologist, Red Hat Public Sector
- Contribution across whole Red Hat product portfolio, ensuring government readiness of Red Hat products; Authoring technical primers
- Collaboration with outside standard authorities on next generation of security & compliance standards; Serving as OVAL Board member
- Design & Development & Integration of open source tools in the realm of security
- Mentoring developers & managers

Red Hat, Inc. - Team Lead & Principal Software Engineer **June 2017 till 2019**

- Team Lead of Process & Information Enablement team within Product Security
- Leading team, responsible for flaw (CVE) analysis, and response management, cross functional collaboration to develop & improve processes, implementation of said processes in various internal systems, devops internal systems in high availability manner
- Serving as member of OVAL Board

Red Hat, Inc. - Senior Software Engineer **April 2016 till May 2017**

- Red Hat Cloudforms Engineering
- Contributing to ManageIQ - one of the biggest rails projects
- Ranking as one of the biggest contributor within a year, earned push access
- Broad knowledge of cloud and traditional infrastructures
- Focused on IPv6 only enablement, chargeback calculations, bug fixes, refactoring
- Found & fixed security vulnerabilities (CVE-2016-4457, CVE-2016-5402, CVE-2016-7047, ...)

Red Hat, Inc. - Team Lead & Senior Software Engineer **March 2015 to 2016**

- Team lead & scrum master of security compliance engineering
- Project management, resource planning, hiring, work assignments, performance evaluation
- Focused on development of tools for assessing compliance of operating system and infrastructures
- Continuing contributing to the following projects as described below

Red Hat, Inc. - Security Software Engineer **February 2012 to February 2015**

- Focused on compliance audit; SCAP-Security Content Automation Protocol
- Currently developing compliance audit solution for cloud based infrastructures
- Advocated for better OpenSCAP project governance and took scrum master and program manager role in SCAP tools development

- Participated in SCAP 1.2 implementation within OpenSCAP project
- Release nanny of multiple releases of the OpenSCAP project, **most active contributor**, reviewed hundreds of patches
- Feature lead of OpenSCAP scanner **integration** to Spacewalk and RHN Satellite.
- Designed a web-based tool for SCAP scans comparison
- Feature lead of remediation capabilities of OpenSCAP
- Re-initiated SELinux support within OpenSCAP project
- Initiated improvements in OpenSCAP internal test suite and its automation
- Advocated for and started continuous integration project for security-related components in Red Hat Enterprise Linux
- Found and **filed** dozens of issues against OpenSCAP and other projects
- Mentor to new team members
- Technical communication with SCAP 1.2 certification authority
- Co-authored an U.S. Patent Application (US 14/016,588)

Red Hat, Inc. - Quality Assurance Associate **February 2010 to January 2012**

- Systems Management Quality Engineering
- Analysis, reporting and tracking of defects in software
- Design, implementation and execution of tests and test suites
- Cooperation with upstream development
- RHEL, Red Hat Network Satellite, Spacewalk, rpm, yum
- Designed and developed internal test management system (scheduling, reporting)
- Informal mentor to new team members
- Become strong advocate of automation, focusing on long term impact

EDUCATION

Masaryk University - Faculty of Informatics

- Master's degree, Information Systems **September 2011 to June 2013**
- Thesis: **Compliance Audit of Linux Environments** (Recognized by Dean's Award)

Brno University of Technology - Faculty of Information Technology

- BS, Information Technology **October 2008 to June 2011**
- Thesis: **Spacewalk Plug-in for the APT Packaging Tool**

PUBLICATIONS AND OTHER RESOURCES

The isimluk.com

- Personal Technical Blog **May 2012 to Now**

Automating Cloud Security & Compliance, Šimon Lukašík, Jan Černý

- Developer Digital Conference: Cloud Native Security, **June 2020**

Compliance Center, Šimon Lukašík

- Report, Developer Conference, Brno University of Technology **February 2015**

SCAP: Open standard for security audit, Šimon Lukašík

- Report, OpenAlt Conference, Brno University of Technology **October 2014**

Security Compliance, Peter Vrabec and Šimon Lukašík

- Report, Developer Conference, Masaryk University, Brno **February 2014**

Systems and Methods For Executing Compliance Verification or Remediation Scripts

- United States Patent 14/016,588 (pending application) **September 2013**

System Compliance Checks, Martin Preisler and Šimon Lukašík

- Report, Developer Conference, Masaryk University, Brno **March 2013**

CERTIFICATIONS

Red Hat University (Cerification ID: 110-002-490)

January 2011 to 2019

- Red Hat Certified System Administrator (EX200)
- Red Hat Certified Engineer (EX300)
- Red Hat SELinux Policy Administrator (EX429)
- Red Hat Certified Virtualization Administrator (EX318)
- Red Hat Engineering Accreditation

IT SKILLS

- Software engineering skill set
- Passion for open source, software, tooling, and automation
- Ability to effectively work with inherited code (I tend to enjoy this)
- Understanding of common security mechanisms and flaws
- Knowledge of various testing techniques and approaches
- Configuring and running Linux systems (including SELinux)
- Understanding of TCP/IP architecture and common protocols
- Ability to quickly recognize flaws and break improper code
- I fluently use following languages:
 - C (with knowledge of ANSI libraries and UNIX C API)
 - Golang
 - Python
 - Ruby (and Rails)
 - Bash (UNIX and GNU userland)
 - Java EE (Hibernate, Struts)
 - ReactJS, Bootstrap, Patternfly
 - SQL (Oracle and PostgreSQL dialects)
 - XSLT
 - Assembly language (understanding of IBM PC architecture)
- Therewithal, I have encountered following languages and environments:
 - C++, Perl
 - Win32Api, wxWidgets, Gtk+
 - Html, Xml, \LaTeX
 - JavaScript
 - VHDL