

Šimon Lukašík

CONTACT INFORMATION

Name: Mgr. Šimon Lukašík
Github: @isimluk
Blog: isimluk.com
Side project: ato-pathways.com
LinkedIn: www.linkedin.com/in/simonlukasik

PROFILE

Versatile lead software engineer with a passion for infrastructure, security, and performance engineering. A proven track record across high-impact projects in cloud environments, security compliance, and open-source. Adept at building platforms, leading teams, and contributing across complex domains.

PROFESSIONAL EXPERIENCE

MissionIT - Technical Fellow / Principal Consulting Engineer *since Apr 2023*

- Delivered on contracts of \$ redacted M+ business value within 2 years
- Led architecture and development of observability platform for private 5G
- Domains: Observability, LTE/5G, AI/ML, post-quantum cryptography, storage systems, cloud cost optimization
- Spearheaded FedRAMP, IL4-IL6 compliance-readiness efforts
- Languages mainly Elixir, Go, Ruby, and Rust
- Principal author of ato-pathways.com
- Hired and mentored engineers, contributed to open-source

CrowdStrike - Staff Cloud Solution Architect *since Dec 2020*

- Integrating CrowdStrike products with public clouds. Emphasis on Kubernetes.
- Serving as implicit SA tech lead, and open source role model, growing the team, author of contribution guidelines, hiring & mentoring, author of internal coding guidelines and code of conduct for CrowdStrike Solution Architecture.
- Drove product innovation by delivering actionable insights and aligning market needs with development goals.
- Author of AWS & GCP Marketplace listings, CloudFormation custom resources, terraform modules, cloud integrations, one-off microservices, and other ready-made blueprints (for example serverless solution to ingest AWS Cloud Trail logs to CrowdStrike Humio)
- Author of [Falcon Kubernetes Operator](#)
- Author of [Golang](#), [Rust](#) and [TypeScript](#) based SDKs for CrowdStrike API
- Technical advisor for Zero Trust architecture implementation with CrowdStrike ZTA.

Red Hat, Inc. - Technical Staff at CTO Office *since Sep 2019*

- 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 (CAC card authentication to Ansible Tower, etc.)
- Collaboration with outside standard authorities on next generation of security & compliance standards; Serving as OVAL Board member
- Principal Advisor to Red Hat Insights Compliance and compliance-operator
- Design & Development & Integration of open source tools in the realm of security
- Led the implementation of RFC 8322 as principal author and integrated it into Red Hat Product Security's operational pipeline.

- Principal author of OpenControl Database - a web service to visualize NIST 800-53 responses
- Founder of [GoComply](#) projects and efforts
- Mentoring developers & managers

Red Hat, Inc. - Team Lead & Principal Software Engineer

since Jun 2017

- 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

since Apr 2016

- 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 couple security vulnerabilities (acknowledged for [CVE-2016-4457](#), [CVE-2016-5402](#), [CVE-2016-7047](#), ...)

Red Hat, Inc. - Team Lead & Senior Software Engineer

since Mar 2015

- 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 bellow

Red Hat, Inc. - Security Software Engineer

since Feb. 2012

- 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

since Feb. 2010

- 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 *Sep 2011 to Jun 2013*
- Thesis: [Compliance Audit of Linux Environments](#) (Recognized by Dean's Award)

Brno University of Technology - Faculty of Information Technology

- BS, Information Technology *Oct 2008 to Jun 2011*
- Thesis: [Spacewalk Plug-in for the APT Packaging Tool](#)

PUBLICATIONS AND OTHER RESOURCES

The [isimluk.com](#)

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

[Red Hat adopts ROLIE protocol](#), Šimon Lukašík, Gabriel Alford

- Corporate Blog Post *Sep 2020*

[Automating Cloud Security & Compliance](#), Šimon Lukašík, Jan Černý

- Report, IBM Developer Digital Conference: Cloud Native Security, *Jun 2020*

[Compliance Center](#), Šimon Lukašík

- [Report](#), Developer Conference, Brno University of Technology *Feb 2015*

[SCAP: Open standard for security audit](#), Šimon Lukašík

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

[Security Compliance](#), Peter Vrabec and Šimon Lukašík

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

[Systems and Methods For Executing Compliance Verification or Remediation Scripts](#)

- United States Patent [US 14/016,588](#) *Sep 2013*

[System Compliance Checks](#), Martin Preisler and Šimon Lukašík

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