PERSONAL DETAILS

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PROFILE

My main interests are in the field of Security, Networking, DevOps, Automation and data Privacy. One of the most important achievements during my studies has been to demonstrate how to make a secure method of communication under an insecure medium such as the Internet for my Bachelor's thesis. In my Master's thesis I focused on test automation and configuration management tools such as Puppet and Ansible in virtualized and cloud environments.

I am working professionally as a Principal Security Engineer and Analyst in PSIRT (Product Security Incident Response Team) using advanced collaboration tools in my daily basis like Git (control version software), Gerrit (code collaboration and review tool), Jenkins for the CI (Continuous Integration), Jira (Task track management), Ansible (configuration management), Docker (containers) and Robot Framework (Test automation framework for ATDD -Acceptance Test Driven Development-).

Currently I am mastering data privacy and tracking control heuristics for the Deep web and the Dark web, the TOR project (The Onion Router) and i2P (Invisible Internet Project).

ACADEMIC TRAINING

2023-*	I am currently doing a course leading to the qualification of Certified Information Systems Security Professional (CISSP) and studying languages such as Python, Go for advanced hardware such as ASIC (Application-Specific Integrated Circuit) or FPGA (Field Programmable Gate Array).
2016	Master's thesis for Improving security in ECS (Ericsson Cloud System) by introducing Puppet configuration manager for install, configure and maintain Cloud Security Services.
2014-2015	Course of 6 weeks of Software Security with Distinction from the University of Maryland.
2013-2014	Collaborate on the Transport Layer communication module for Aalto-1 Space Satellite.
2012-2015	MSc of Engineering in Information Technology at Metropolia University.
2006-2007	Bachelor honors in Applied Computing (Northumbria University).
2001-2005	High National Diploma in Software Engineering at ESI (Computer Systems School).

PROFESSIONAL EXPERIENCE

2021-*	Principal Software Engineer, Product Security at Red Hat, Security Lead for Red Hat Advanced Cluster Management for Kubernetes (RHACM).
2020-*	Member of board of directors at Rahapuutarha Investments company. www.rahapuutarha.com
2019-*	Own project company, LINCE (Lynx Intelligence Nordics Central Enterprise).
2017-*	Senior Software Engineer, Product Security, Security Leader for Ansible and Tower at RedHat.
2015-2017	Certificate Authority for Ericsson Network Security Unit. Senior Software Engineer at Ericsson.
2014-2015	Cloud Security for Ericsson Network Security Unit. Software Engineer at Ericsson.
2012-2014	IP RAN Transmission R&D Unit. Software Engineer at Ericsson.
2012-2012	NSN (Nokia Siemens Networks) for SW integrity with HSM management as Security specialist.
2011-2012	Senior Software Engineer in MSSF (Mobile Simplified Security Framework) at Nokia Finland.
2007-2009	AAP3/Cisco Systems, as a Software Engineer developing in C and fixing IOS bugs.
2004-2005	Contract of six months at ITS as a Linux system administrator. www.itsolutions.es.
2002-2003	Internship for two months at Sodawave (Internet consulting incubator).

LANGUAGES

ENGLISH	High level. Spoken and written, good technical English.
SPANISH	Native Language.
CATALAN	Native Language.
PORTUGUESE	Basic knowledge. Enough to read and understand all written Portuguese.

COMPUTER SCIENCE

AGILE METHODOLOGIES

- DevOps way of working for the last 2 years.
- Scrum and Kanban Flow.
- CI (Continuous Integration) and automation processes.
- XP (eXtreme Programming) as an engineering agile development (good practices and values).
- Lean process development.
- Analysis and design patterns. Refactoring, antipatterns, pragmatic programming practices.

CONFIGURATION MANAGEMENT

- Puppet: experience in cloud environments for 1 year.
- Ansible: experience in virtualized environments for +5 years.
- Clustering: pacemaker, corosync and implementation of agents in OCF format.

CLOUD AND VIRTUALIZATION

- Virtualization infrastructure: KVM and VmWare.
- Libvirt: virtualization manager library.
- Docker: containers and automation deployments.
- Vagrant: virtual development environments.
- Packer: automation of golden images for multiple platforms from a single source
- Openshift and Kubernetes

OPERATING SYSTEMS

- More than 20 years of experience in GNU/Linux (Used most of the important or key Linux distributions such as Debian, Gentoo, Slackware, Ubuntu, Suse, Redhat & Fedora, Arch).
- FreeBSD (as a server) and OpenBSD (as a router/firewall). Other operating systems like QNX (RTOS -Real Time Operating Systems-), Plan9 (researching) and IOS (Internetwork Operating System).
- Fundamental utilities and environment tools such as VIM and Emacs as development environments. Git, Gerrit, Jenkins, Doxygen, GDB, software profilers such as GNUProf, Lint, Gcov, Valgrind, etc.

NETWORKING

- Advanced knowledge of TCP/IP stack suite internals and IP routing.
- Course modules (Networks I and Networks II) at Northumbria University equivalent to CCNA (Cisco Certified Network Associate) of Cisco Systems.
- Local area networks and Internet security and design.
- IXIA and Scapy experience for advanced packet generator and performance analysis traffic.

OFFICE SUITE

- Markdown and Asciidoc formats for introducing Gerrit in the review process for the documentation.
- LaTeX: for generating high quality PDF documents.
- LibreOffice, Dia and Inkscape: as an alternative to Microsoft office suite.
- Microsoft Office: Word (Text processor), Excel (Spreadsheet), Access (Database), Power Point (Presentations), Visio (Diagram editor), Project (Project management).

DATABASE MANAGER SYSTEMS (DBMS)

- MySQL (Administration and programming with SQL Standard).
- Microsoft SQL Server (administration and programming with T-SQL).
- Oracle (administration and programming with PL/SQL).

PROGRAMMING

- Advance shell scripting with bash, sed and awk.

- Procedural languages: C.
- Scripting languages: Perl. Learning further now with Python and Ruby.
- Testing tasks in Nokia and Ericsson for QA (Quality Assurance) for security and Robot Framework.
- OOP (Object Oriented Programming): C++ and Java. UML 2.0.

OPEN SOURCE AND TOOLS

- Member of FSF 8269. Long experience with open source software.
- GCC (Compiler) and optimizations. GDB (Debugger), GNUProf (Profiler) and GCov (Test coverage).
- Use of Doxygen, MarkDown, Asciidoc and LaTeX for documentation.
- Use of GIT (version control software), GNU/make (Makefiles), GNU/Emacs and other tools.

SECURITY

- Secure software development programming practices.
- PKI Infrastructure and cryptographic API (PKCS#11, x509, CMS, ASN.1, etc).
- Advanced HW Security (HSM and TPM).
- Data privacy tracking: Deep and Dark web, TOR (The Onion Router),i2P (Invisible Internet Project).

SKILLS

- Leadership: participation, organization and motivation of project groups.
- Work in group / Teamwork: good cooperation and help between team work.
- Research: interested in doing the work researching new technologies, viewing alternatives and discussing between teams, bearing in mind the standards.
- Optimistic: I am always optimistic doing my work and it is satisfactory when I find solutions.

OTHER USEFUL DATA

I can work in other jobs or tasks if it is necessary, I can adapt without problems, I am receptive and I have a flair for group work. I am fully available to travel (including high risk countries). I have a driving B license (cars).