

## PERSONAL INFORMATION



Hi, my name is Kristoffer Sederlöf, I was born in Helsinki / Finland 17.6.1977. I am currently living in Sibbo with my wife Ulla, our two boys Odin (10 years) and Tor (soon 8 years). I am a positive man with an open mind for life as well as free software with an emphasis on verifiable cybersecurity & privacy.

## POSITIONS

**CyberSec. consultant, CEO**      **Zen-mode Solutions oy ab**      **2017 ...**

In January 2017 I became a Startup Entrepreneur via creating Zen-mode Solutions oy ab.

Zen-mode Solutions is a Finnish cybersecurity software company. We specialize in creating secure and self-contained solutions which are completely under your control. The customer holds all the keys.

Our main products are:

- Secure mobile
- Secure laptop and
- Secure server

Via which you can have:

- Encrypted and normal voice calls
- Encrypted and normal emails & SMS' and
- A secure & anonymous Internet presence

Our business model relies on:

- Open source, open android and hardened Linux
- The best available end-to-end encryption algorithms
- Hardened devices from different hardware vendors and
- Network security & anonymity via our VPN and Tor Bridge

What sets us apart from most other IT security companies, is the fact that we can actually prove that we are safe & secure. You can also verify this on your own. Your data is safe with us.

Let's take back our privacy - <https://zen-mode.com>

⇒ Keywords: *Startup Entrepreneur, CyberSecurity, end-to-end encryption, secure mobile, secure laptop, secure server, Finnish ICT regulation.*

**Technical Specialist**

**Tieto Finland Oyj**

**2014...**

In March of 2013 I got a new consulting contract for a big IT networking company.

The initial contract of three months ended up being about a year and a half. After finishing my initial tasks (creating a new CI pipe via expanding the customers current system) I moved on to help the customer in many other areas.

Some of the areas being:

- show-stopper problem debugging & fixing,
- helping the customer in their virtualization effort,
- improving their systems stability (removing many single point of failures via spreading out the solution / problem to multiple hosts etc.),
- upgrading many parts of their on-line production system (software, hardware and virtualization work), and perhaps most importantly the creation of
- automatic installation scripts for their used tools (0-100% scripts, in other words going from a cold machine to a system which is ready for production usage via running a single script).

⇒ Keywords: *Automation, Virtualization, TA and system infrastructure architecture, software developer, TA, CI, Python, Django, Jenkins, documentation.*

**Technical Specialist**

**Tieto Finland Oyj**

**2013 ...**

In April of 2012 Nokia Siemens Networks outsourced our whole department to Tieto Finland Oyj.

I'm currently working as a technical specialist (consultant) for Nokia Siemens Networks in the software development and software test automation area.

⇒ Keywords: *R&D architect & implementor, documentation, end-to-end software test automation, CI, maintenance, technical support.*

**Software Engineer**

**Nokia Siemens Networks**

**2010...**

In November of 2010 I join a new project which aimed to unify the test automation effort for Nokia Siemens Networks (in the Network Management software area).

This gave me the opportunity to create a third version (generation) of my test automation solution.

This time the specification was made much bigger and more open, thus we had to support a much broader spectrum of usage scenarios than in the older generation of the solution.

The main design feature was finding a good balance between *simplicity of usage* versus *power & versatility*. Meaning that you can reuse the same solution (tests) in multiple ways via minor change to the configuration.

Ca. one year after the projects kickoff I held a successful demo to a pretty big audience.

I'm happy to say that our test automation solution is in production use in multiple projects and on multiple sites.

Most of all I'm happy to say that the whole design has worked out beautifully.

⇒ Keywords: *R&D architect & implementor, Documentation, end-to-end software test automation, CI, maintenance, technical support, debugging.*

## **Software Engineer**

## **Nokia Siemens Networks**

**2008...**

In the fall of 2007 I joined our main SCM and Production Pipe team. This team was responsible for the development and maintenance of our departments (and the biggest players of Nokia Siemens Networks) complete *End-to-End* test automation framework.

In short, we are enabling multiple different projects to do completely automatic software testing from 0-100%.

That is, we have different farms of machines which are doing single or cluster testing all the way from: scratch installation → wanted OS installation → Third-party software installation → followed by the "software under tests" installation & automatic testing. And finally, the reporting of how it all went.

More precisely:

1. Server boots...
2. MAC address → DHCP server → Test server gets its identity
3. Kickstart → Base Linux installation
4. OS installation
5. Third-Party software installation
6. Installing the main software under test
7. The testing of the whole product
8. Storing the reports under project-X on the main report server...

Just to start all over again when the next *successful build* arrives.

☞ Steps 1 to 5 belong to **phase one** (think: as a background process, so that we always have at least one farm ready & waiting to be used).

☞ Steps 6 to 8 belong to **phase two**.

After having received a new build we normally jump straight to **phase two**, thus minimizing the *extra* test execution time as much as possible.

In other words, our mission is to maintain and further develop this whole chain of events and the machinery which makes this all possible.

⇒ Keywords: *R&D architect & implementor, end-to-end software test automation, CI, maintenance, technical support, debugging, productizing.*

**Software Engineer**

**Nokia Siemens Networks**

**2006...**

In 2006 I continued to work with the same Agile Testing team, but with more emphasis on architecture changes and software upgrade & maintenance (head maintainer on Nokia side).

As our software started to spread to more places, more time was spent on solving customer problems and adding special features that they wanted.

⇒ Keywords: *R&D architect & implementor, maintenance, technical support, debugging, productizing.*

**Design Engineer**

**Nokia Networks**

**2005...**

In the spring of 2005 I started to work as the head Nokia R&D *Designer Engineer* of another small team (we had a number of consultant's who where creating the main product for us).

This time my role included developing some corners of the product, packaging & testing it and delivering the software to our department (about 100 persons) which was geographically spread out between *Finland, Germany and India.*

Basically that meant: the planning and creation of our Real-Time Environment structure, UCM structure, the packaging & testing and delivering of our software to the rest of customers (different internal system components), product technical help and general hacking on bringing it all together.

Alongside of my *technical working role* at Nokia I had the pleasure of starting (and being a mini project manager on) a sub-project which has enabled our product to also test Java GUI software in a quite practical way.

⇒ Keywords: *R&D architect & implementor, Agile software development, SCM, RPM management, productizing.*

**Design Engineer**

**Nokia Networks**

**2004...**

In the autumn of 2004, I strengthened the User Management team, this time on the R&D side by becoming the second programmer of that team (IBM Tivoli products, IDI and Tivoli Identity Manager).

One of my main responsibilities was to design and implement the upgrade procedure for Nokia's User Management solution running on Tier-2 (Red-Hat Linux).

In short, we had a big product built up from mixed technologies which tried to centralize and unify the management of different computers environments.

⇒ Keywords: *R&D architect & implementor, Perl, Shell tools, Java, Java-script, XML, LDAP, UCM, OS software packaging (HP-UX, Linux and Windows), software maintenance, productizing.*

**Design Engineer**

**Nokia Networks**

**2004...**

In the summer of 2004 I once again switched my position inside our new department. This time I joined a small R&D project as the main Developer (Self Performance Monitoring) under the title of *Design Engineer*.

I was responsible for designing and implementing a rather big set of programs/daemons that collected different types of information from multiple sources. This mixed data was then transformed into XML via a converter.

The XML files were then passed on to another system which pushed the data into a database for further analysis & report generation.

⇒ Keywords: *R&D architect & implementor, Perl, Shell tools, XML, Java, Oracle, LDAP, SCM, SD-UX packaging, productizing.*

**Verification Coordinator**

**Nokia Networks**

**2003...**

In 2003, as more members were added to the testing team, I was appointed the title of *Verification Coordinator*.

The amount of different technologies that our User Management product combined was one of the biggest I had ever seen.

On the Operating-system-side our software was pretty much spread out all over the place. We had different client/server programs running on HP-UX, Linux and on Windows.

On the software-side we were dealing with different *Installation Packages* for all the OS' mentioned above.

As a result of all of these things, we ended up using a multitude of different programs and programming languages. A short summary of the most prominent technologies would be: Java, Java-script, Perl, Shell-Scripts of different flavors, Bat-files, LDAP and DB's from the most well known vendors.

⇒ Keywords: *R&D and testing, test leader, software packaging, LDAP, Oracle, DB2, managing different OS' (HP-UX, Linux and Windows) from one source, software delivery.*

**Test Engineer**

**Nokia Networks**

**2002...**

In the end of year 2002, as our department moved from Helsinki/Hiomotie to Espoo/Karaportti I switched to another testing team inside Nokia.

I was the sole tester of what later came to be Nokia's User Management Solution. My testing responsibilities reached all the way from installation to usability testing.

⇒ Keywords: *Software testing, IBM Tivoli product family, productizing.*

**System Tester**

**Nokia Networks**

**2001...**

In 2001, I worked as a *thesis worker* for Nokia as well as a part time *System Tester*.

The title of my thesis was: "*A research in Test Management Systems*". As the title hints, I was evaluating into which Test Management System our department might consider switching to in the future.

In my role as a *System tester*, my main area of testing responsibilities was User Interface and Stability testing.

It was around this time when I noticed how critical the testers role is in the IT-industry. Without it, the product quality which gets released & delivered would in many cases not please the end-customer.

⇒ Keywords: *Thesis, test management, software usability, software testing.*

**Software Tester, Perl programmer**

**Nokia Networks**

**2000...**

In June 2000 I joined Nokia Networks as a *Software Tester*. Having mentioned that I knew Perl in my Job interview, I switched position to become a *Perl programmer* for half a year.

I took over the development and administration of our departments own Test Management System, which is the position I held until our department decided to switch to another internally more commonly used solution.

Working in this position I got a glimpse of how to integrate user's requests and program specification to the best of my abilities and how to work with different kinds of people and technologies.

⇒ Keywords: *Perl, SCM & UCM, User Interface design, software testing.*

**Technical Help desk**

**Adison Oy**

**1996, 3 months**

**Technical Help desk**

**Adison Oy**

**1999, 3 months**

In 1995 ADS Anker's credit card terminal department was sold to Adison, where I then moved to work. I continued to work on the customer service side, but with more emphasis on the terminal service.

⇒ Keywords: *Technical help desk, problem solving, electronic device service.*

**Technical Help desk**

**ADS Anker Data Systems-Oy/Ab**

**1994, 2 months**

**Technical Help desk**

**ADS Anker Data Systems-Oy/Ab**

**1995, 3 months**

At ADS Anker Datasystems I worked at the credit card terminal help desk. My main tasks involved: solving customer problems over the phone line and on-site, synchronizing the information between the different banks and the customers and last but not least maintenance of the terminals themselves.

⇒ Keywords: *Technical help desk, problem solving, electronic device service.*