

## 1. Goal

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I'm interested in all kinds of **Linux** jobs as long as it involves coding in the usual or in less common languages.

## 2. Personal Information

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Name	Adam Endrodi (born Endrődi Ádám)
Contact	+36XX XXXX XXX, XXX@XXXX.hu
Nationality	Hungarian
Education	master of engineering in information technology, comprehensive background in mathematics
Specialization	Linux/Unix, networking, security, development tools
Experience	embedded, telecommunications, system administration
Language skills	advanced level English and some Finnish
LinkedIn profile	<a href="http://www.linkedin.com/in/adam-endrodi">http://www.linkedin.com/in/adam-endrodi</a>
Twitter feed	@NoSuchNetwork
Code repository	<a href="http://github.com/enadam">http://github.com/enadam</a>



## 3. Strengths

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- life cycle- and process-wide understanding of software engineering
- >15 years of C, C++, Perl, and Linux/Unix up from the foundations
- experience in a broad variety of domains of information technology
- top priorities are code quality, reliability and maintainability
- reviewing, testing, profiling, debugging, remote troubleshooting
- extensive use of scripting and automation
- supportive collaboration with designers, testers and managers



## 4. Experience

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|-------------------------------|---|---|
| • Unix systems programming    | • IT security and cryptography                          | • CLI, API and protocol design                          |
| • kernel-space programming    | • OS & applications hardening                           | • parsers and interpreters                              |
| • network programming         | • safe and resilient coding                             | • creating development tools                            |
| • databases & their operation | • multithreading complications                          | • test automation and CI                                |
| • distributed systems and HA  | • functional programming                                | • writing accurate yet readable technical documentation |
| • constrained environments    | • understanding of the C tool-chain and dynamic linking | • mentoring colleagues, scrum                           |
| • virtualization              |   |   |

## 5. Keywords

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| • C, C++, assembly, ELF, yacc, TeX       | • SQL, PostgreSQL, MySQL, SQLite  |
| • Perl, Perl XS, Python, Python-C, Lua   | • etcd, Redis, Couchbase, <a href="#">ConfD</a> , YANG                    |
| • regexps, advanced shell scripting      | • XML, REST, <a href="#">OpenAPI</a> , SSL, PKI, X.509                    |
| • gcc, gdb, STL, Qt, glib, GTK           | • IPv4/IPv6, routing, netfilter, Postfix, ssh                             |
| • autotools, CMake, Debian/RPM packaging | • <a href="#">SCTP</a> , DNS, LDAP, HTTP, iSCSI, <a href="#">Diameter</a> |
| • git, Subversion, Bugzilla, Jenkins     | • Linux namespaces and containers, Docker                                 |

## 6. Employment History

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- **2012/12–present:** [Nokia Networks](#), in the [Mobile Networks](#) business group of Nokia Corporation *senior software engineer* of the Linux Team working on the [Open Telecom Application Server](#) (TAS), a VoLTE solution component
- **2012/07–2012/12:** [BalaBit IT Security](#), the creator of [syslog-ng](#) and the [Zorp](#) firewall *3<sup>rd</sup> level support engineer*

- **2010/09–2011/09:** [Collabora Ltd.](#), the UK/Canada-based open source company *consultant software engineer* working on [MeeGo](#), the operating system of the Nokia [N9](#) and [N950](#) smartphones in Helsinki, Finland
- **2007/09–2011/09:** Blum Software Engineering LLC (defunct) *software developer* working on [Maemo](#), the operating system of the Nokia [N900](#) smartphone in Helsinki

## Present Roles

- primary developer of the command line interface for [TAS](#) ( $\approx 10,000$  LoC)
- main author and maintainer of the [Diameter](#) load balancer ( $\approx 22,500$  LoC)
- reviewer of specifications, feature implementations and patches
- written many pre- and post-deployment scripts and utilities ( $\approx 18,000$  LoC)
- created lots of development tools for my and my team's benefit ( $\approx 10,000$  LoC)
- giving security advice on threat modelling, hardening, guidelines and on specific vulnerabilities

## In the Past

For four years I worked in Helsinki at Nokia Devices' R&D facilities on the [compositing window manager](#) and the [media application framework](#) of the Linux-based Nokia [N900](#) and [N9](#) smartphones.

After that I joined BalaBit IT Security as 3<sup>rd</sup> level support engineer, where I triaged customer problems and actually fixed tricky bugs in the products of the company. I also helped the support team adopt the [Kayako](#) ticketing system by customizing and enhancing it to match and exceed the retired system's capabilities.

## 7. Some Older Projects

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Project name: MenuGene [Univ. of Pannonia, Dept. of Information Systems](#) 2004–2009

Description: Computer aided nutrition counseling system for experts and for the laymen. The user entered his/her nutrition needs (amount of protein, fat etc.) and received an optimal daily or weekly dietetic menu computed with a **genetic algorithm**. This was a [university research program](#) involving multiple institutions.

Duties: As the main software developer I wrote the generator engine and the underlying libraries in **C++**. The service had a simple **PHP** web interface and a **Perl** GUI. As by-product some **debugging tools** in **C** yielded as well. I also redesigned the database schema and migrated it from Oracle to **PostgreSQL**.

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Project name: qbot [Univ. of Pannonia, Dept. of Information Systems](#) 2005–2007

Description: Automated testing and student performance evaluation service designed for a course on computer networking. Students uploaded their C programs to be compiled and executed in a **qemu virtual machine**. There the submissions were placed under **stress-test** by feeding them **randomized**, **fuzzy** input sequences. The behavior of the programs was validated against the specification set out in the assignment. Through the web interface teachers could supervise everyone's activity, students could manage their uploads and watch the test execution in real-time.

Duties: I designed and implemented the system from top to the bottom in **Perl** augmented with **Perl XS**, and prepared many assignments complete with validators.

## 8. Personal Properties

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| • code readability and reliability are precious      | • <i>let's do it</i> attitude |
| • tests <i>before</i> making or merging a commit     | • patient & listening         |
| • accepts others' style and respects their decisions | • determined & disciplined    |
| • thinks ahead and learns from mistakes              | • independent & passionate    |
| • hungry for knowledge and experience                | • no compromise if possible,  |
| • nothing is totally boring or useless               | but ready for it if necessary |

Beside professional self-improvement I'm interested in language, experimental psychology, social discrepancies and in the gender problem.

*January 28, 2017*