1. Goal

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

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	http://www.linkedin.com/in/adam-endrodi
Twitter feed	@NoSuchNetwork
Code repository	http://github.com/enadam

3. Strengths

- 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

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

5. Keywords

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

6. Employment History

- **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
  3rd *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 3rd 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

Project name: `MenuGene`   Univ. of Pannonia, Dept. of Information Systems 2004–2009

Description: Computer-aided nutrition counselling system for experts and for the laymen. Based on personal nutrition needs (amount of protein, fat etc.) the service prepared optimal daily and weekly dietetic menus computed with **genetic algorithms**. This was an academic 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**.

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

- code readability and reliability are precious
- tests *before* making or merging a commit
- accepts others' style and respects their decisions
- thinks ahead and learns from mistakes
- hungry for knowledge and experience
- nothing is totally boring or useless

- *let's do it* attitude
- patient & listening
- determined & disciplined
- independent & passionate
- no compromise if possible,
  but ready for it if necessary

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

February 6, 2017