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

Education master of engineering in information technology

strong background in computer science and mathematics Linux/Unix, networking, security, CLIs, development tools embedded, telecommunications, systems administration

advanced level English and some Finnish

https://www.linkedin.com/in/adam-endrodi

Code repository https://github.com/enadam

3. Strengths

Specialization Experience

Language skills LinkedIn profile

- life cycle- and process-wide understanding of software engineering
- > 18 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
- design, specification and code reviewing, testing, profiling, debugging, remote troubleshooting, root cause analysis, documentation, quick grok of code bases
- extensive use of scripting and automation
- supportive collaboration with architects, testers and managers

4. Experience

- Unix systems programming
- kernel-space programming
- network programming
- databases & their operation
- distributed systems and HA
- ullet constrained environments
- virtualization

- IT security and cryptography
- OS & applications hardening
- safe and resilient coding
- multithreading complications
- functional programming
- understanding of the C toolchain and dynamic linking
- API and CLI design
- interprocess communication
- parsers and interpreters
- creating development tools
- test automation and CI
- writing accurate yet readable technical documentation

5. Keywords

- C, C++, assembly, ELF, yacc, T_FX
- Perl, Perl XS, Python, Python-C, Lua
- regexps, advanced shell scripting
- gcc, gdb, STL, Qt, glib, GTK
- autotools, CMake, Debian packaging
- Subversion, git, GitLab, Jira, Jenkins

- SQL, PostgreSQL, MySQL, SQLite
- etcd, Redis, Couchbase, ConfD, YANG
- IPv4, IPv6, SCTP, netfilter, SSL, PKI
- DNS, LDAP, iSCSI, Diameter, OpenSSH
- Docker, Kubernetes, qemu, OpenStack
- scrum, Scaled Agile Framework (SAFe)

6. Employment History

- 2012/12—present: Nokia Software, in the Cloud Native Core product line of Nokia Corporation senior specialist and technical lead, working on the Telecom Application Server (Nokia TAS), a microservices-based VoLTE and 5G solution component
- 2012/07-2012/12: BalaBit IT Security (acquired by One Identity), the creator of syslog-ng 3^{rd} 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
- 2007/09–2010/09: Blum Software Engineering LLC (defunct) software developer, working on Maemo, the operating system of the Nokia N900 smartphone in Helsinki

Present Roles

- Author of the Troubleshooting & Message Monitoring framework for **Kubernetes** in Nokia TAS, to be used by telco operators, Nokia technical support and R&D engineers (Python, C, $\approx 11,300$ LoC).
- Chief developer of the Command Line Interface of the product, a custom shell to access the operation and maintenance functions in a consistent and well-documented manner (Python, jinja, $\approx 17,000$ LoC).
- Earlier I made another CLI suite for TAS-SEE, a side-product of Open TAS (Perl, shell, $\approx 8,000$ LoC).
- I created most of the Diameter load balancer, an application-layer HA proxy (C++, $\approx 22{,}500$ LoC).
- Written many pre- and post-deployment scripts and utilities for Open TAS (Perl, $C_{\gamma} \approx 18,000 \text{ LoC}$).
- Invented numerous development tools for my own and my team's benefit (*Perl, shell*, $\approx 10{,}000$ LoC). Many of them are publicly available in my GitHub repositories.

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++.

Project name: qbot

Univ. of Pannonia, Dept. of Information Systems 2005–2007

Description: Automated testing and student performance grading 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 with validators.

8. Personal Properties

- \bullet tests before making or merging a commit
- thinks ahead and learns from mistakes
- labours with high attention to details
- nothing is totally boring or useless

- let's do it attitude
- patient & listening
- determined & disciplined
- independent & self-sufficient

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