

Résumé for Patrick Louis

Backend Developer/R&D

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Nationality: Canadian/Lebanese

Loves

Tackling systems to document them and make them simpler to understand, working on [mini_projects](#), writing articles about unix, psychology/philosophy/mindfulness, administering the [nixers.net](#) community, working on the nixers.net [podcast](#) and weekly Unix [newsletter](#), leading community projects, playing [wargames](#), automating and scraping websites for data mining, drawing [ascii arts \(impure group\)](#), research [dynamic evolutionary psychology](#).

I am

A deliberate thinker in a world of interconnected ideas and concepts, not afraid of intricate, big, old, and complex systems/architectures/specifications, great team player and planner, not shy to ask questions and admit being wrong, curious and passionate about science, respectful and interested in the expertise in all domains.

Professional Interests

Operating systems, project planning and software design, anything Unix-like, web/internet/data interaction between machines, explorable explanation, retro-computing, UI and UX design.

Core competencies

Programming languages the most used: Perl, C, Python, JS, PHP, C++, Java, SH

Little languages: Make, awk, sed, bc

Development tools: vim, make, gcc/clang, gdb, strace/ptrace, ldd, the Unix as an IDE paradigm, Eclipse.

Version control: git, svn

Operating systems: Unix (daily driver, member of multiple communities), Windows (principally as a user)

Databases: PostgreSQL, MySQL/MariaDB, SQLite3 (primarily as a programmer)

Some APIs/Protocols/Standards I've worked with: XCB, HTML5, Curl, GTK2 C++, JCA/JCE, wxpython, Kivy ([proof read the kivy cookbook](#)), SMTP, LDAP, ASN.1, custom X509 PKI, JCA/JCE HSM handling, spingboot, and much more.

Experiences

Invigo, Software developer (2014-present): Creating and maintaining a variety of services for mobile operators using C++, Perl, Java, and PHP. From ldap authentication, SOAP api, Ericson VPN, aggregation of statistics, password encryption and validation, USSD surveys, implementation of remote sim provisioning server (deep knowledge of GSMA RSP eSIM for consumer and M2M) & simliance interoperable profile building and protecting, parsing of various CDR formats and binary files, web design and template system, etc..

Online, freelancer (2016-present): Helping in personal projects. For example, implementing a C and C++ command and control file transfer server with custom encryption, bots, and automation scripts.

Formal Education

[USEK](#) (February 2012–2014) BS in Computer Science.

Natural Languages

Fluent in English and French. Understands/Talks, but not fluently, Arabic.