

Sergei Shapka



Personal Information

Gender: Male
Date of birth: July 31, 1978
Marital status: married
Nationality: Ukrainian
Address: Ukraine, Kiev
Mobile: +38 (066) 558-03-03
Email: skynowa@gmail.com
LinkedIn: <https://www.linkedin.com/in/sergei-82189a53/>

Objective

C/C++ Developer (Unix / Windows)

Work Experience

From 05/2013 until now: **Booked.net** (<https://www.booked.net/>)

Position: C++ developer (Linux, FreeBSD)

Projects: Development and supporting WEB server for hotel reservations

Responsibilities:

- implement site modules, services, WEB APIs
- develop internal C++ library (filesystem, MySQL, CURL, Redis, REST API wrappers)
- porting FreeBSD to Linux x86_64 code
- bugs fixing
- static code analyzers, Git hooks
- scripting (bash, python, make, CMake, JS)
- code reviews
- knowledge sharing
- mentoring

Technologies:

- C++03/11/14/17, STL, POSIX
- LibXml2, cURL, MySQL, XSLT, JS/jQuery
- Docker builds

06/2012 - 05/2013: **Wifi-free** (<http://wifi-free.com/>), full remote time

Position: C/C++ developer (cross-platform)

Projects: VPN provider (Qt 4/5, POSIX, OpenSSL)

01/2012 - 05/2012: Kiev Software Factory, Ltd (<https://ksftech.com/>)

Position: C/C++ developer (Linux, Solaris)

Projects: Document Server for Internet (porting from Solaris x86 to Linux x86_64, write OS depended code, implement unit tests)

01/2011 - 01/2012: ExMedia Soft (<http://exmediasoft.com>)

Position: C/C++ developer (FreeBSD, Linux)

Projects:

- Administrative CMS for DB (Qt, Boost, MySQL), reports
- CGI scripts (ANSI C99, STL, cURL, PCRE, OpenSSL, MySQL)
- xLib (<https://github.com/skynowa/xLib>)

09/2007 - 11/2010: UNIX Group (<https://yug.com.ua/>)

Position: Middle C++ developer (Windows, Linux)

Projects:

- Accounting system of eToken Aladdin keys, PKCS#11
- Cross-platform library xLib (Windows, Linux)
- IIS authentication filter
- POP3/SMTP client

07/2001 - 08/2007: TK-Textile

Position: Junior C++/VB/JS developer (Windows)

Projects: Database management

Education

2002-2008: State University of Information and Communication Technologies

Faculty: Information security
Specialty: Protection of computers and computer networks
Kiev, Ukraine

1993-1998: Kiev College of Communication

Faculty: Automatic telecommunication
Specialty: Automatic telecommunication

Kiev, Ukraine

Professional Skills

- C/C++ (C99, C++03/11/14/17)
- OOP, OOD principles
- Cross-platform development
- Knowledge of STL, POSIX, BSD Sockets
- Knowledge of internet protocols (TCP, UDP, HTTP, POP3, SMTP, CGI, SSH2)
- WEB services (REST APIs)
- Libraries Boost (Asio, Thread) (?), libevent (?), cURL, OpenSSL
- Experience with IPC, multithreading, daemons, signals, networking, asynchronous communications (?), filesystem events
- Skills with databases (MySQL, SQLite)
- Skills in working with PKCS#11, encryption algorithms OpenSSL (RSA, AES, Blowfish)
- Experience in porting applications 32bit/64bit, Unix/Windows platforms
- Development using Qt 4/5
- Unit testing (GTest, CppTest) and TDD
- Experience with build (Make, CMake, CPack, GCC, MinGW, Clang, pkg-config, Conan, Vcpkg), debugging toolchains (GDB, DDD, gprof)
- Static code analyzers (Cppcheck, Clang-Tidy, PVS-Studio, Dr.Memory)
- Distribution packages (RPM, DEB, NSIS, archive, OSX bundle)
- HTML, CSS, XML, XPath, JSON, XSLT, JS (jQuery)
- Docker, virtualization software (VMware, Virtual Box)
- Bug tracking systems (ClickUp, Jira)
- Familiarity with version control systems (Git, SVN), hooks
- Bash, Python scripting
- Experience with Unix environments: FreeBSD, Red Hat/CentOS, Debian/Ubuntu, Solaris
- Experience with Windows environments
- Writing documentation (Doxygen, Markdown)

Tools

VS Code, Eclipse, Vim

Qt tools

QtCreator, Monkey Studio IDE

10+ years of commercial development experience

Pet projects

xLib (<https://github.com/skynowa/xLib>)

Platforms: Windows, Linux, FreeBSD, Android, Mac OS X

Classes:

- core (strings, datetime, utils)
- cryptography (OpenSSL, CRC, random, GUIDs, PKCS#11)
- databases (MySQL)
- debugging (exception, profiling, crash report)
- file system (file, directory, volume, dynamic link library, events)
- logging (file, system log, tracer)
- network (TCP, UDP, DNS, HTTP, POP3, SMTP, CGI, SSH2)
- patterns
- MT and IPC (atomics, mutex, semaphore, event, condition variable, thread, pool thread, process, signal)
- unit testing (test manager, unit tests)

Foreign Languages

- English: Intermediate level
- Ukrainian: Native
- Russian: Native

Personal Skills

- responsible and hard-working person
- good decision making, administrative
- excellent time-management skills
- coaching and supervisory skills
- excellent estimation skills
- team player
- result orientation
- client orientation
- communication and interpersonal skills
- ability to work on one's own at some phases of the software development cycle
- ability to work at the most phases of software analysis and programming
- self-management skills
- experience in reviewing code

Expectations

- Well defined workflow, good coding practices, documentation and requirements
- Flexible work schedule, WFH possibility