



# Resume

**Vasily Starostin**

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## Career objective

**Developer (Rust). Senior developer or team lead (C++).**

## Key skills

- **C++**. 15 years of experience. STL, Boost, Qt, C++11/14, cmake, msvc/gcc/clang.
- **Network programming**. 10 years' experience. TCP/IP, HTTP, OpenSSL, mail, SS7.
- **Multi-threading, cross-platform**. 7 years of experience (Windows, Unix, MacOS).
- **Lua, Python**. 3 years of experience. Embedding into C++, scripting, optimization.
- **Rust**. Half-year of experience. Sockets, threads, unit-testing.
- **Traditional practices**. Unit-testing, code review, regular builds, source control, bug tracking, documenting, agile/scrum. Can help to inject these practices in your development cycle.

## Education

**Moscow State Aviation Institute (National University).**

Master's degree in mathematics and computer science.

## Professional experience

**Expload** (May 2019 — October 2019)

Development of the server part for MMO game. Implementing game rules and network communications with clients. Rust, WebSocket.

**Kaspersky Lab** (August 2010 — April 2019)

### Software Engineer

Development and support for [Kaspersky Security for Mail Server](#). Mail server: C++, Windows/Linux/FreeBSD. Anti-Spam rules engine: Lua, pcre.

- Found a memory leak in OpenSSL.
- Found a bug in msvc runtime.
- Increased engine throughput in 1,5 times.

Development of joint build system for all core components. Python, cmake.

Development of integration tests for core anti-virus components. C++, Google Test, Win/Mac/Unix.

- Conducted some master classes for auto testers.
- Established and supported common source code library with test helpers.

Used infrastructure: TFS, Perforce, Confluence, Jenkins, Git.

**S. N. Safe & Software** (August 2009 — May 2010)

**Lead developer**

Handling requirements, design and implementation of the engine for proactive anti-virus [Safe'n'Sec](#). MSVC++, Jira.

- Introduced automatic testing with both unit and integration tests.

**CBOSS** (November 2005 — July 2008)

**Senior developer => Team lead**

Lead a team of developers of [CBOSSrtb](#) billing system. Requirements analysis, high level and technical design, task assignment, implementation, execution control, test planning, help in deploying and support. C/C++, HP NonStop mainframe, SS7.

- Took part in creation of company's "C++ development standard".
- Organized the making of test contour for automatic calls testing.

**Elecsnet** (January 2001 — October 2005)

**Developer => Senior Developer**

Design, coding, deploying and support of client-server system for transaction exchange between billing and remote terminals. This system was used at Elecsnet and was handling more than 200k transactions per day. C++, tcp/ip, udp, win32, completion ports.

- Designed new transactions security system based on cryptography.
- Reduced connection expenses from \$30 to \$10 per terminal.
- Wrote full documentation and instructions, coached service staff.
- As the CERT member, took part in financial crime investigations.

Programmed an Olivetti ATM. This ATM was working at Impex Bank. DOS, C++.

**Sberbank RF** (1999 — 2000), **junior developer**

Coding the server part of finance reporting system. S/390, Cobol, C++, Crystal Reports.

**Personal projects**

[Levelbuddy](#) – free software for dual boxing in World of Warcraft. C++, Qt.

[Minimap Zoom](#) – streaming PC screen to tablet. Client: TypeScript, iOS & Android. Server: C++, Qt, WebSocket.

[Calc](#) – one line web calculator. TypeScript (JavaScript), Node.js.

Robot programs for WoW и PUBG. C++, Lua, Python, OpenCV.

**Additional info**

- Spoken languages: English (upper intermediate), Russian (native).
- The author of the book "The computer is easy as 2+2" (ISBN 5-469-01152-6) and several articles ("[Amusing C++](#)", "[STL sortings as marathon illustrations](#)" etc).