

# VLADIMIR SHABANOV

Functional programmer

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(online copy at vshabanov.com/cv)

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## ABOUT

Experienced in functional programming. Has own business in Haskell. Working in finance.

Past experience: full-stack web development, compilers, DSL & EDSL creation, hardware modelling and simulation, GUI, 3D graphics, game programming, digital signal processing, firmware, and device drivers.

Languages: Haskell (10+ years), Ur/Web, JavaScript, OCaml (4 years), C++ (6 years).

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## EXPERIENCE

Standard Chartered Bank (London, UK) 2022-now  
*Quantitative developer*

Working on a foreign exchange (FX) options pricing service:

- Sped up pricing 2-10 times.
- Transforming a complex legacy into maintainable, extensible, performant and pleasant to work with software.

BazQux 2011-now  
*Programmer and founder*

Developing an advanced web-based RSS feed reader (bazqux.com).

Doing everything as a one-person business: marketing, customer support, design, frontend, backend, and server administration.

Frontend: Ur/Web + JavaScript, CSS (Stylus), Webpack.

Backend: Haskell + Ur/Web, Riak, ElasticSearch, bare metal Debian servers.

Technical highlights:

- Commercial Haskell app running in production since 2012.
- Complex and highly customizable yet simple looking single-page app.
- High-performance distributed feed fetching.
- Complex and performant filters.
- Wonderful mobile web interface (users find it more convenient than the native mobile apps).
- Magically converting any article to responsive HTML.
- Integration with APIs (Twitter, Facebook, YouTube, payment gateways) as well as providing an API for client apps.

Part of the sources: [github.com/bazqux/bazqux-urweb](https://github.com/bazqux/bazqux-urweb)

Packages on Hackage:

- `fast-tagsoup` — fast XML tag soup parser.
- `http-conduit-downloader` — web-crawler downloader.
- `css-syntax` — major performance improvement in PR #3.
- `http-client` — a number of bug fixes and improvements.
- `HsOpenSSL` — maintainer.

ProSoft

2009–2011

*Programmer*

Developed various parts of microelectronics IDE: VHDL and CPU core simulator, C debugger, waveform viewer (displays gigabytes of data in real-time), UI. Mostly Haskell with small portions of C/C#/Java.

Delta O Ltd. (Russia)

2004–2009

*Programmer*

Videoslot games (2D & 3D ones), developed using OCaml, C++, Python, Haskell, OpenGL, GLSL, OpenAL, 3dsmax, flash, Linux.

Hired and worked with remote developers on web and client-server applications (Erlang & Haskell).

Startup

1999–2004

*Programmer*

Security audio record system (phone/microphone, proprietary hardware) and a lovely records browser.

Tons of audio analysis, UI, plus various stuff such as AVR firmware, USB driver, video recording, import from other similar systems, and installation packages.

Used C++Builder, VC++, IAR C, STL, boost, gcc, emacs.

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## EDUCATION

Moscow State Technical University named after Bauman

2001–2007

*M.S., Mechanical Engineer*

Moscow Mathematical College

1997–2001

*Programmer*