Functora

Hi-end quality software development.
Reliable. Functional. Pure.

About

I am pseudonymous software developer Functora. I do specialize in a software development with <u>Haskell</u> and <u>Nix</u> languages since 2019. I work with passion and create the best software using the best technologies. My areas of expertise and interest are <u>Bitcoin</u>, <u>Lightning Network</u>, sound money, trading, free markets, privacy and sovereignty. My primary technical goals are type-level guarantees of software correctness and safety.

Skills

Haskell is my primary and the most favorte tool. I do have advanced level of Haskell including:

- <u>Lens</u> for efficient data manipulation and parsing.
- <u>Singletons</u> for pseudo-dependent type programming.
- <u>Presistent</u> and <u>Esqueleto</u> typed SQL drivers.
- <u>Yesod</u> enterprise web framework.
- <u>Miso</u> frontend web framework.
- <u>GHCJS</u> compiler and <u>JSaddle</u> EDSL.

I am also qualified in other useful areas:

- <u>Nix</u> and <u>NixOS</u> - Strong medium level. Nix is the best tool for deterministic builds, tests and development environments. Iâ m using NixOS daily.
- <u>Bitcoin</u> and <u>Lightning Network</u> - Advanced level as application developer (not as protocol developer). Bitcoin is the greatest achievement of the new millennium, which brings financial freedom and sovereignty back to the people.
- <u>PostgreSQL</u> and <u>SQLite</u> - Strong medium level. I am not database expert, but I am using everything what software developer should use to manipulate data storage. Queries, transactions, joins, locks.
- <u>Docker</u> and <u>Swarm</u> - Advanced close to expert level. I am using Docker and Swarm for development, builds and production. Docker is a very handy tool for MacOS and Linux compatibility.

Code

Examples of my personal code:

- <u>currency-converter</u> - An app for converting currencies, generating financial documents, and sharing them via links or QR codes. It includes optional client-side encryption. Built using Miso and GHCJS, the source code is available on <u>github</u>.
- <u>functora</u> - My own collection of various general-purpose libraries, most of which work with both GHC and GHCJS.
- <u>bfx</u> - Bitfinex cryptocurrency exchange client library for Haskell.
- <u>rentier</u> - My first Haskell project which I have used to learn Haskell. The booking system is based on the Yesod web framework. The code is very obsolete.

Examples of other code I was actively working on with other people:

- <u>btc-lsp</u> - Bitcoin Lightning Service Provider.
- <u>lnd-client</u> - Lightning Network Daemon (LND) client library for Haskell.

Contact

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