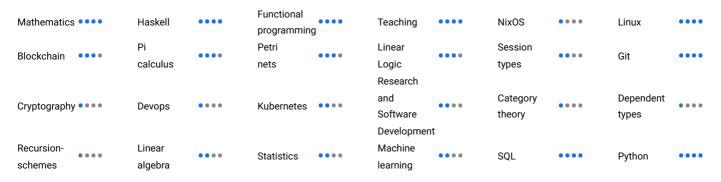
Ksenia Portu

Software engineer, Mathematician, Haskell/Nix admirer

Last update: December 13, 2022

Up-to-date version of CV is available at

https://ksenia-portu.github.io/cv-dummy



Linkedin

Github

Email

in Ksenia Portu

Ksenia Portu

ksenia.portu@gmail.com

Software engineer passionate about Mathematics

Professional Experience

Haskell Software Engineer payment system



The project

Used stack

Tasks

Haskell Software Engineer recruitement web platform



The project

Used stack

Tasks

Haskell Software Engineer develop DSL

Haskell Nix package manager compiler lambda calculus Parsing Type inference Bidirectional typechecker Evaluation

The project

Used stack

Tasks

Oct 2017 - Jan 2019 · 1 yr 4 mos

Blockchain Haskell developer new generation blockchain

Haskell cryptography blockchain consensus algorithms p2p network routing smart-contracts RocksDB rancher docker

The project

I have worked as Blockchain Haskell developer on new blockchain generation project. The framework part of the project is open-sourced https://github.com/Enecuum/Node and it has decent documentation and explanations about architecture and possibilities: Building network actors with Enecuum Node Framework Why Haskell?

Enecuum. Framework possibilities
Enecuum.Framework Possibilities, Part 2

Used stack

```
Stack and knowledge
*haskell:*
Free monads (eDSLs)
STM (Software Transactional Memory)
Lenses
Key Value database - RocksDB

*common:*
- DevOps: rancher, docker
- Metrics: Grafana+Graphite+StatsD
- Project tracking: Redmine
- Knowledge database: Confluence
```

Tasks

```
research and development in such fields as

- blockchain related:

-- blockchain consensus algorithms (PoW,
PoS, PoA)

-- p2p network, routing

-- tests (integrational, functional)

-- smart-contracts, petri-nets, pi-calculus

- common application dev related:

-- config management
```

- -- cli
- -- loggingPackages, dependency management via stack.
- $\operatorname{\mathsf{--}}$ parallel computations and processes

Education

Ural Federal University / Applied Mathematics, 2007 - 2012, Master degree

Additional Experience

University Lecturer Branch of Ural Federal University

Sep 2020 - Jun 2021 - full university year(two semesters)

teaching

- I taught such disciplines as
- Information System's design
- High-level programming languages (Haskell)
- Databases
- Semantic networks

I curated numerous students' programming projects.