

## Yurii P.

### Haskell and Scala Engineer, Plutus smart contracts developer

#### SUMMARY

- 3 years of experience in Plutus / Cardano smart contracts developer role (Plutus Core, Plutarch)
- Cardano ecosystem knowledge
- Haskell, Scala, Cabal/Stack, GADTs/Type families, Generics, Servant, lenses, mtl, free monads
- senior-level professional
- Functional programming with FRP, Redux, Event sourcing, Category theory
- OOP, OOD, UML, Design patterns, SOLID, DI. TDD, BDD, Unit, functional, and integration testing
- 14 years of experience in software engineering

#### SKILLS

<b>Main Technical Skills</b>	Haskell (3 yr.), Scala (2 yr.), Akka, Plutus (2 yr.), Cardano
<b>AI &amp; Machine Learning</b>	NumPy
<b>Programming Languages</b>	Objective-C, Python, Ruby, Swift
<b>Scala Frameworks and Libraries</b>	Akka Actors, Akka Streams, Clojure, Scala Cats, Scala SBT
<b>Python Frameworks and Libraries</b>	Matplotlib, NumPy, Pandas, SciPy, Seaborn
<b>Ruby Frameworks and Libraries</b>	Ruby on Rails, RVM
<b>Databases &amp; Management Systems / ORM</b>	AWS ElasticSearch, PostgreSQL
<b>Amazon Web Services</b>	AWS ElasticSearch
<b>Platforms</b>	Apache Mesos
<b>Version Control</b>	Apache Subversion, Gitflow
<b>Scripting and Command Line Interfaces</b>	Bash, Regexp
<b>QA, Test Automation, Security</b>	BugZilla

<b>Virtualization, Containers and Orchestration</b>	Docker
<b>SDK / API and Integrations</b>	GraphQL, RESTful API
<b>Deployment, CI/CD &amp; Administration</b>	Jenkins
<b>Collaboration, Task &amp; Issue Tracking</b>	Jira
<b>Message/Queue/Task Brokers</b>	Kafka, ZeroMQ
<b>Web/App Servers, Middleware</b>	RVM
<b>Methodologies, Paradigms and Patterns</b>	Waterfall
<b>Other Technical Skills</b>	Akka HTTP, Akka Stream, Coq, Emacs Lisp, Marathon, monocle, OCaml, Plutarch, Plutus Core, portage, pyenv, Skikit-learn, Skipy

## WORK EXPERIENCE

### Platonic Systems

April 2022 – April 2024

Work with Plutus Core, Plutarch, Plutus Application Backend, Cardano Transaction Lib. Exchange platform and stablecoin system development, including liquidity, swaps, Oracles, and smart contracts.

### Capgemini

September 2021 – February 2022

Scala Engineer in Payment services development. Payment statistics processing. Software engineer in QA, increasing existing functionality test coverage.

### EMURGO

April 2021 – June 2021

Haskell Developer Contractor, Plutus Core smart contract development. Research and pilot implementation of Plutus smart contracts (beta).



## **CodeIT**

May 2020 — January 2021, Kharkiv, Ukraine

Haskell Engineer, fintech cryptocurrency exchange platform, and BankID/OpenID authentication system. Development processes, CI/CD pipeline, nodes architecture design. Established Haskell development practice, and formed the team from scratch.

## **Paxnet Ukraine**

February 2018 — February 2020, Kyiv, Ukraine

OCaml Developer, proprietary blockchain R&D. Setup development processes, CI/CD pipeline, worked on cryptography API, event sourcing web development, distributed hash table implementation.

## **Digitally Inspired**

May 2018 — January 2019, Odesa, Ukraine

Scala Developer Engineer, event-sourced high-load back-end development, testing, CI/CD. Rewrite existing image hosting systems from Java and Oracle DB to Scala microservices and Kafka. 1M active users have been migrated.

## **subcontractor, NDA\***

June 2017 — May 2018

Python Developer & Data Scientist, general AI/ ML research and R&D.

Haskell Developer, web developer, R&D engineer.

## **Kapowai**

September 2016 — February 2017, Kyiv, Ukraine

iOS Developer, product, mobile banking development.

## **Kelecorix**

March 2016 — August 2016, Kharkiv, Ukraine

Junior Haskell Developer. building web applications with Haskell.

## **DMD Binary**

May 2015 — February 2016, Kharkiv, Ukraine

iOS Team Lead, leading iOS development team, building and organizing development process; estimations, task decomposition and assignment, code review, CI.

## **WegoWise**

November 2013 — January 2015, Kharkiv, Ukraine. Ruby Developer. Advanced webpage scrapers, unit tests development.

## **Provectus IT, Inc**

November 2012 — August 2013, Odesa, Ukraine

iOS Developer, iOS promo, and enterprise applications development.

iOS Developer, mobile banking applications development.



## **NIX Solutions**

September 2010 — March 2011, Kharkiv, Ukraine

iOS Developer Trainee, Junior Software engineer for mobile platforms.

multiple iOS apps for various businesses.

## **SELECTED PROJECTS**

- **KyrosId Authentication fintech service**

OpenID-Connect, symmetric and asymmetric encryption implementation

- **GRIDA Proprietary blockchain**

CI/CD, development processes, cryptography, R&D, web development, various roles

- **Photobucket Image hosting**

Active user's data migration to Kafka, build fault-tolerant services, split particular logic from monolith apart, build mailing and logging subsystems, work on monitoring and CI.

- **Tenderoom Tender statistics service**

Develop web nodes for statistics processing and appropriate web scrapers to collect data from several REST APIs.

- **Kapowai Mobile banking**

Mobile banking app development (iOS), focused on security.

## **EDUCATION**

- BSc, Computer Science (System Programming) at National University of Radio-Electronics Kharkiv, Ukraine
- Data Science major course, Data Science Ukraine
- Big Data Fundamentals course, QALight IT Academy
- Microservices architecture principles and implementation Course ITSimulator

