



Jakub Liška

Software developer

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<https://pragmaxim.com>

English, German

BACKGROUND

ABOUT

I perceive life as form of art, trying to be passionate about all important aspects of it gives me joy. I like Scala and its ecosystem the most while working in areas like fintech, blockchains, decentralization, distributed data processing, etc.

WORK EXPERIENCE

Researcher, Authenticated State Storage

Sep, 2023 - Present

Researching and Prototyping Authenticated State Storage based on concept of Patricia Merkle Trie and Authenticated Dynamic Dictionaries (Rust, RocksDB)

- Rust, RocksDB

Open source blockchain explorer/analyzer developer, [Ergo uExplorer](#)

Sep, 2022 - Oct, 2023 1 year 1 month

Supplementary ergo chain explorer/analyzer with Cassandra backend, rapid indexing speed, UTXO state, hot address statistics, JanusGraph, plugin framework, GraphQL api, etc.

- Scala, ZIO, Akka, Cassandra, JanusGraph, GraphQL, Blockchain, ...

Open source blockchain developer, [Ergo](#)

Mar, 2021 - Feb, 2023 1 year 11 months

Responsible for blockchain Consensus and Settlement layer (peer-to-peer networking, off-chain/on-chain synchronization, mempool, handling miners - block candidate generation and validation) while playing with Computational layer built on top of Sigma protocols and ErgoScript.

- Scala, Akka, ZIO, Blockchain, ...

Researcher & Software engineer, [Pragmaxim](#)

Mar, 2022 - Feb, 2023 11 months

Researching and Prototyping e-government level decentralized Health Care system using Daml and Hyperledger.

- Scala, ZIO, Cats, e-Governance, Daml, Hyperledger, TypeScript, Haskell, ...

Senior software engineer, [Globalwebindex](#)

Jan, 2015 - Apr, 2021 6 years 3 months

I was an engineer hired for bootstrapping a company branch specializing on anonymous and GDPR compliant internet user tracking, which means distributed data processing, analyzing and structuring terabytes of data from billions of impressions into meaningful representation

- Scala, Cats, Akka, ScyllaDb, Elasticsearch, Druid, Cassandra, Kubernetes, ...

open source dev, [Mawex](#)

Jan, 2016 - Jan, 2019 3 years

Lightweight library for distributed task scheduling based on Master Worker Executor model.

- scala, akka

open source dev, [Saturator](#)

Jan, 2016 - Jan, 2019 3 years

Finite State Machine that is satisfying dependencies within partitioned/layered directed acyclic graph until it is fully saturated.

- scala, akka

open source dev, [Replayed](#)

Jan, 2015 - Jun, 2015 5 months

A tool for writing and managing markdown documents - becoming collaboration/specification/documentation app for PM

- scala.js, Monifu, ScalaTags, uPickle, uTest, bootstrap

open source dev, [Postfix Deliverability Analytics](#)

Jan, 2015 - Jun, 2015 5 months

Postfix Mass Mail log processing tool, mining reasons of bounced messages for newsletter analytics

- scala, akka, MapDB

open source dev, [Scalajs Rx IDb](#)

Jan, 2015 - Jun, 2015 5 months

DBMS for IndexedDB engine, based on Rx principles (type safety, resilience, backpressure, user friendly (reduces all Idb CRUD features to 4 API methods))

- scala.js, Monifu, uPickle, uTest

open source dev, [Scala.js Gremlin Client](#)

Jan, 2015 - Jun, 2015 5 months

Gremlin-Server client with ad-hoc extensible, reactive, typeclass based API allowing for using turing complete graph traversal language gremlin to query graph databases from browser

- scala.js, reactive-websocket, Monifu, uPickle, uTest

open source dev, [Reactive Websocket](#)

Jan, 2015 - Jun, 2015 5 months

Very light websocket server and browser client based on Rx principles

- scala.js, scala, java-websocket, Monifu, uPickle, uTest

open source dev, [Scala.js keyboard polyfill](#)

Jan, 2015 - Jun, 2015 5 months

Improves keyboard event handling experience in hostile browser environment and allows for avoiding onpress events that are cross-browser incompatible and soon to be deprecated

- scala.js

Senior software engineer, [FG Forrest](#)

Jan, 2012 - Dec, 2014 2 years 11 months

Mass Mailing service development

- Scala, Akka, MapDB, ...

Startup founder,

Jan, 2011 - Dec, 2011 11 months

Joins demand (people, companies) with supply (professional translators) (hibernated due to lack of business skills)

- Built on top of Liferay portal as a few complex plugins
- Java

Software developer, [Komix](#)

Jan, 2009 - Dec, 2010 1 year 11 months

Integrating Czech Law enforcement with Schengen Information System, including development, deployment and maintenance at Police headquarters

- Mission critical piece of software and high security measures
- JavaEE, Spring framework

SKILLS

Frontend

Scala.js

Scala.js-react

Backend

Scala

Zio2.0

Haskell

Akka

Akka Streams

Kubernetes

AWS

Protobuf

Monix

Tinkerpop3

TitanDB

ElasticSearch

ScyllaDB

Druid

EDUCATION

Economics, Master's degree, Czech University of Life Sciences

Sep, 2005 - Jun, 2010

SW Development & Applied Computing, Master studies, Waterford Institute of Technology

Sep, 2008 - Jun, 2009

INTERESTS

Sport

swimming

jogging

biking

alpine climbing

kayaking

skating

Music

Reading / Writing

anthropology

astronomy

philosophy

Open Source

blockchain

