

Ivan Grishaev

An IT engineer focused on Clojure/Java for the last 8 years. With long Python & Delphi experience in the past.

Tags: Clojure(Script), GraalVM, Postgres, Datomic, AWS/Lambda, Kafka, Python. Emacs, LaTeX.

Armenia, UTC +3

Links:

- ivan@grishaev.me
- github.com/igrishaev
- linkedin.com/in/igrishaev

Summary

- 8 years of Clojure in production (Aleph/Manifold stack, core.async, Component/Integrant);
- Graal/native-image compilation for AWS Lambda and CLI tools;
- experience with different data sources: PG, Datomic, Kafka, Cassandra, etc.
- some experience with frontend: re-frame, React;
- good knowledge of Python/Django;
- good with Emacs and LaTeX.

Clojure contribution

I maintain about a dozen of Clojure libraries hosted on Github (see my [Clojars profile](#)). One of them is [Etaoin](#) which is widely used (700 stars, spotted in many companies).

I wrote a short book in English about Java interop. [Get in on Leanpub](#).

I wrote a full printed book in Russian called “[Clojure in Production](#)”. The book covers web development, Clojure.spec, exception handling, systems, testing and other subjects. It is partially translated to English in my blog.

I wrote the second volume of it called “[Clojure in Production: vol. 2](#)”.

Experience

May 2023 — now: Senior Clojure developer @ [Raiffeisen Bank International](#) (Austria)

I maintain a vast risk management system. Clojure, AWS, Lambda, Postgres, message queues.

Nov 2022 — Sep 2023: Senior Clojure developer @ [Audience Republic](#) (Australia)

I'm working on a vast Clojure code base + Postgres. Some of the things I've done so far:

- introduced Docker & integration tests;
- added linters, improved the CI;
- wrote some internal documentation;
- implemented new business features.

Feb 2022 — Sep 2022: Senior Clojure developer @ [Clashapp/Huddles](#) (USA)

I support vast Clojure codebase with plenty of components:

- AWS, Postgres;
- Integration with third-party providers;
- Handling AppStore notifications;
- Massive integration tests.

Dec 2018 — Feb 2022: Senior Clojure developer @ [Exoscale](#) (Switzerland)

At Exoscale, I mostly worked on various network orchestrators. We had plenty of data sources like Mysql, Cassandra, Kafka which required precise control. I used Aleph & Manifold stack for my apps. I maintained some legacy apps driven with Core.async.

Exoscale has plenty of internal stuff which I contributed to. One of them is a web framework named Blueprint built on top of Open-API spec and data schemas.

I made an app to transfer vast files (+100Gb) into our infrastructure.

I integrated the web SSH terminal to the admin page (noVNC, JavaScript, Clojure on backend).

I made a draft of the official CLI utility for Exoscale API. That was a Clojure project compiled with GraalVM/native-image. The file size was 25Mb, and the performance was faster than Golang's.

During the last year at Exoscale, I worked on [DBaaS](#): a massive feature that integrates a third-party database provider into the Exoscale infrastructure. That involved HTTP API, data processing, reconciliation, billing processing and more.

Jan 2018 — Dec 2018: Senior Clojure developer @ [Health Samurai](#) (Russia)

Health Samurai is a startup focused on medical data. They develop FHIR-compatible software, and I was working on several internal services. One of them named [US NPI](#) is open source and may be found on [GitHub](#). This service fetches the official US NPI registry and fills the database. It also provides flexible REST API, search capabilities and [Swagger UI](#).

I spent four months working on a mobile app for iOS. The app was driven by Re-Natal and ClojureScript. We managed to pass Apple's review and had the app released in App Store.

2016 — Dec 2017: Clojure developer @ [Flyerbee](#) (Switzerland)

Flyerbee is a web app that automates outdoor advertising. I worked on both server and UI parts using a modified version of the Luminus stack. That included Clojure, Ring, JDBC/PostgreSQL, and Re-frame.

2015 — 2016: Python developer @ [SwiftServe](#) (UK)

SwiftServe is a worldwide CDN network that competes with AWS CloudFront. I developed three internal services written in Python and Django and set up micro-service architecture in AWS cloud. I integrated a modern unit-test framework into our pipeline and added a new documentation system.

2013 — 2015: Python developer @ [Dataart](#)

DataArt is a vast outsourcing company. The main project I've been working on was a worldwide online game with 70M players. I developed several internal services, set up message queues and wrote lots of unit tests.

2008 — 2013: Various contracting jobs

I've been working on various projects including Python and Delphi. My clients were mostly individuals and small companies. I developed desktop apps, websites and simple Android applications.

Education

Bachelor's Degree at Applied Informatics in Economics, [Chita University of Economics](#), 2003 – 2008

Other

I am a father of three. Enjoy winter activities. Run my [blog](#) in both English and Russian. Educate a couple of students.