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TL;DR

- **Haskell**, **PureScript**, **Rust**, **TypeScript**, **Nix**, **Python**.
- Backend, DevOps, Blockchain, a bit of Frontend.
- English: C1, Russian and Ukrainian: Native.
- I love strong type systems and reproducible builds.

Experience Timeline

Autumn 2025: C&

Another experiment with languages, a thin transpiler targeting C.

Summer–Autumn, 2025: Freelance

- Backend in **Rust**. Mostly communicating with APIs.
- Some data analysis of crypto exchanges in **Haskell**.

April, 2025: Ludum Dare 57

- Sound effects.
- Minor programming in Unity.

June, 2024 – November, 2024: Gauss

In **Gauss** I was building backend in **Haskell**, particularly, integrations with OpenAI and Intercom, Plaid and MethodFI to lesser extent. Worked with Servant, Esqueleto/Persistent/PostgreSQL.

February, 2024 – current time: https://codeberg.org/aka_dude/lux

lux is my self-educational project in compiler building. Please see an interactive tutorial [here](#).

December, 2023 – February, 2024: <https://scrabble.cabal.run>

Frontend in **PureScript**/Halogen for the Scrabble game.

June, 2023 – current time: Osmos

- **DevOps/SysAdmin**:
 - Github Actions for automatic testing and deployment.
 - Production and QA servers (**NixOS** at AWS).
 - bot for alerts (checks network connection and HTTP status) in **Haskell**.
 - **Nag CI**, a custom CI in **Haskell** for Github-compatible forges. Makes NixOS deployments much quicker than deployments via Github Actions.
- Substitute **Python**/FastAPI/SQLAlchemy backender.

Spring, 2022 – February, 2023: MLabs

- Cardano-Wanchain Bridge

For CWB we've been writing off-chain code in **PureScript** with Cardano Transaction Library and on-chain code in **Haskell** with PlutusTx.

- DevOps

As of February, 2023 MLabs uses HerculesCI. I've been writing modules in **Nix** for Hercules.

2018 – 2022: Higher School of Economics, Moscow

- I strongly disliked LabView (a tool for visual programming of sensors), so I found the sensors' firmware and wrote a **Python** library for communicating with sensors. If I needed to do the same thing today, I would write it in Rust.
- Embedded programming with Arduino, C++ and **Python**. I made a demo for a wireless measuring device. It was a box with a gyroscope and a computer program that showed the box's accelerations real-time¹. There was a plan on making more of such devices, but I guess no one really needed them, so that didn't happen.
- A numerical calculation for **Real Science**.
- A small 2D simulation of bouncy particles on GPU with OpenCL and **Rust**. The code is lost, unfortunately.
- A **Zulip** bot in **TypeScript/NodeJS** for monitoring university's infrastructure.
- A **Gitlab CI/CD** configuration.
- During mandatory internship I wrote backend in **TypeScript/NodeJS/light-arrow**.
- For most of my time in the university, I've been studying **Rust** for backend:
 - I've worked on the **teloxide** crate during its early days.
 - I've created a **typed wrapper** for **sled**.
 - I've made a telegram bot for notifying myself of events on my PC: **notify-tg**.
- Together with a professor and another student, we've created a thunderstorm warning system for high-rise workers. I've written two parts of this system in **Rust**: a backend that polls sensors, and a Windows program that communicates with the backend and shows a notification before a thunderstorm.

¹Demonstration: `/apparatus_demo.mp4`