

Valery V. Vorotyntsev

Experienced software engineer, pragmatic problem solver. I can organize an efficient team, which is pleasant to work in. People like working with me.

Looking for a Rust programming opportunity (remote) in an open source project.

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Work experience

1999–2006: Nuclear power plant simulators

Company: ИТЦ ПК (GSE Systems' subcontractor)

"Plant process" graphical dashboard application ([behold](#) ). I ported it from IRIX to Linux, adapted to the needs of our project and integrated.

Technologies:

- SysV IPC (shmem, sockets), dbm, X11, CGI
- C, C++, bash, awk, Python
- gtkmm, ACE framework, Trac (issues & wiki), [DataViews](#)

2006–2010: Mobile operator data processing

Company: UMC → MTC → Vodafone

Pipeline: telecom equipment → CDRs → my software  → Oracle DB

Technologies: C++, Python, PL/SQL, m4 (mon petit DSL for Zwiki tables).

Pet projects:

- [under.c](#)
- [topla](#)

2011–2020: Distributed object store



Remote work, globally distributed team.

Company: Xyratex → Seagate

R&D project. Initially targeting exascale HPC, then archive solution, now — hybrid cloud. To be open-sourced in autumn 2020.

June 2011–May 2017: C programmer

- Configuration cache subsystem (DAG of conf objects, client/server, graph traversal APIs, data format converter, visualization) — design and implementation.
- Modular initialization/finalization mechanism — implementation.
- Memory-efficient representation of device pools — design and implementation.
- Wrote helper scripts that improved developer experience.

Technologies: C, Python, bash, a sprinkle of Expect and JavaScript.

May 2017–June 2019: HA system maintainer, team lead

- Inherited a High Availability (HA) solution — 50K lines of Haskell code — from Tweag.io developers.
- Coped with it. 😎
- Trained a team of 5 engineers, who had no prior Haskell experience.

July 2019–August 2020: "Hare" project 🐰

Our team of 5 had successfully replaced the legacy HA system with a simpler solution based on Consul.

My main contributions:

- [Collaboration model](#) à la ZeroMQ — the team became a happy oasis 🌴, set amid enterprise desolation.
- RFCs — I've established and promoted the systematic way of writing technical specifications.
- Tests automation (CI), merge bot ("Not Rocket Science Rule of Software Engineering").

Technologies:

- Dhall 🪄, bash, Python
- Consul
- GitLab CI, Jenkins

🎓 Education

- 1993: Kyiv Natural Science Lyceum No. 145 Award of recognition for outstanding grades in math.
- 1999: National Technical University of Ukraine "Kyiv Polytechnic Institute" Avionics engineer, diploma with honours.

Community

- [LtU-Kyiv hackathon](#) — organizer
- 2015: DroidPlanner app (Android) — volunteer, accidental team leader
- Haskell study group
- Elm study group
- [Rust Hack & Learn, Kyiv](#) — organizer