Valery V. Vorotyntsev

Experienced software engineer, pragmatic problem solver. I can grow an efficient team. People like working with me.

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Work

October 2020–now

Company: Elastio

Rust programmer in a startup building a backup and recovery solution for public clouds.

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.

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

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.

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.

January 2011–May 2011: Embedded software engineer

Company: Cogent Plus

- Integrated third-party TR-069 client with OpenRG middleware (Linux-based). The software ran on ITS Telecom mobile broadband router.

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

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

🎓 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