

Valeriy V. Vorotyntsev

Experienced software engineer, pragmatic problem solver. I can grow a happy and productive team. People like working with me.

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Work

October 2020–now: Rust programmer at Elastic

[Elastic](#) is a startup building a backup and recovery solution for public clouds.

My contributions:

- Implemented ransomware detection software in Rust
- Developed R&D tools in Bash, Python, and Rust
- Improved ergonomics of `elastic` CLI tool
- Implemented a config crate (à la `aws config`)
- Enhanced maintainability of CI definitions (ask me about `github-actions-dhall`)
- Programmed gRPC API services in Rust

Technologies:

- AWS (EBS, EC2, ECR, Lambda, S3)
- Protobuf
- Docker
- `jq` (*my precious!*)

2011–2020: Distributed object store

Company: Xyratex → Seagate

The project started as an exascale **object storage system** for HPC. Then it pivoted into an archival solution. Then a hybrid cloud... The code had been [open-sourced](#) in autumn 2020.

July 2019–August 2020: "Hare" team leader 🐇

I lead a team of 5 engineers. We had successfully replaced legacy HA (High Availability) system with a simpler solution based on **Consul**.

My contributions:

- **PC3** collaboration model — for 5 months the team was a happy oasis 🌴 set amid enterprise desolation
- Introducing the practice of **RFCs**
- Tests automation, CI, merge bot
- **Configuration** module

Technologies: Python, **Dhall** 🖋️, Bash; Consul; GitLab CI, Jenkins; GFM-formatted English

May 2017–June 2019: Haskell programmer, team leader

- Inherited a **High Availability** (HA) solution — 50K lines of Haskell code — from **Tweag.io** developers. Coped with it. 😊
- **Mentored** 5 colleagues, who never programmed in Haskell before. In a few months we became a *functional* team, doing maintenance work and developing new features.

Technologies: **Cloud Haskell**, `Control.Monad.Operational`

June 2011–May 2017: C programmer

- **Configuration caching** 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 were well received by colleagues

Technologies: C, Python, Bash, a sprinkle of **Expect**

January 2011–May 2011: Embedded developer at Cogent Plus

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


2006–2010: Telecom data processing

Company: UMC → MTS → Vodafone

Maintained and developed **CDR** processing software in C++ and Python.

1999–2006: Nuclear power plant simulators

Company: ИТЦ ПК, subcontracted by GSE Systems

- Ported the "Plant Process Computer" dashboard system ([watch it in action](#) ) from IRIX to Linux, customized, and integrated
- Designed and implemented a client-server GUI application (C++)
- Wrote a CGI server for generating reports (Python)

Technologies:

- SysV IPC (shmem, sockets), X11, dbm
- 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 mathematics
- 1999: National Technical University of Ukraine "Kyiv Polytechnic Institute"
Avionics engineer (diploma with honours)

Community

- [LtU-Kyiv hackathon](#) — organizer
- IT volunteering — lead a team of Android developers in 2015
- Haskell study group
- Elm study group
- [Rust Hack & Learn, Kyiv](#) — organizer