

# Anton Latukha

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Personal information	Age:	28 years (1990-07-28)
	Marital status:	single

## Professional skills

### Main skills

- \* Solid foundations of Haskell programming. Main practice repo <https://github.com/Anton-Latukha/Haskell-Programming-From-First-Principles>, Org notes on Haskell <https://github.com/Anton-Latukha/haskell-notes>. Solid Category theory, Lambda calculus, Computer science & other scholarly foundations for Haskell.

- \* DevOps skills: knowledge/experience of many Open Source projects, containerization (& creating custom container images and custom IT systems from them), clustering (Kubernetes clusters), CI (Jenkins, Travis, Hydra CI, GitLab CI), AWS and GCE services and the minimization of their costs, Terraform & Ansible.

- \* Nix language, Nix tooling, NixPkgs, NixOps, Hydra CI. Had a small team in command. Deployed Hydra CI, managed NixOS servers with NixOps, written custom Nix language code. Contributed to upstream NixPkgs. Maintainer of couple of packages in NixPkgs. Written the new Nix installer <https://github.com/NixOS/nix/pull/1565> (made a lot of work to merge it, gave a NixCon talk to merge it [https://youtu.be/hhgrCV\\_r7YE?t=6364](https://youtu.be/hhgrCV_r7YE?t=6364)). Now participating in HNix.

- \* Creative at work, love to apply philosophy to work. Pick right tools for the job, programmed (and can) in many languages (prefer Haskell, Shell, Python), have experience/knowledge of many technologies, configurations and DSLs, love to find, know, use hints. Use knowledge and creative thinking to write glue code to combine code, infrastructure & services creating something more.

- \* Deep understanding of topics which I work on. Have strict dictionary of terms and semantics, ability to reason abstractly & flexibly. Knowledgeable in many mathematical areas. Good ability to understand, talk and come to agreement with managers & specialists. Having a strong character, rigorous at duties (have moral character), can lead and manage people.

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### ### OS Linux

- \* NixOS
- \* Debian
- \* Ubuntu (7.04 - onward)
- \* CentOS
- \* Fedora (My first Linux was Red Hat Linux 8)
- \* Arch Linux
- \* Alpine Linux
- \* deep knowledge of POSIX standard
- \* can efficiently create & work in any Linux environment.

### ### Have some experience in more exotic OS

- \* IBM AIX systems. 6.1 and 7.1. Got 3 official IBM courses on AIX systems.
- \* FreeBSD

### ### OS Windows

- \* Had used from MS DOS 3.0, MS DOS 5.0, Windows 1.0, 3.11, 95, 95 OSR2, 98, 98 SP1, SP2, Windows NT, Windows 2000, Windows 2003 Server, Windows 2008 Server, Windows 2012 Server.
- \* Was main administrator of system integration company with Microsoft products infrastructure.

### #### Init subsystems

- \* systemd
- \* SysV
- \* Upstart

### #### Configuration/Code Management

- \* Git
  - \* Terraform
  - \* Ansible
  - \* Nix language & NixOps
  - \* SaltStack
  - \* Puppet
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#### #### Virtualization & containerization

- \* Virtualization and containerization theory & practice
- \* Kubernetes
- \* Docker (Compose, Machine, Swarm, private repositories)
- \* Cloud platforms: AWS EC2, ECS; GC GCE, GKE
- \* KVM
- \* VMWare solutions line with ESXi (5.0-5.2)
- \* OpenVZ
- \* HyperV
- \* LXC

#### #### Databases

- \* Database theory. Structure, keys, normalization, queries, transactions, users, rights, Boolean algebra.
- \* Tuning database to the data load
- \* SQL language
- \* MySQL
- \* MariaDB
- \* PostgreSQL
- \* InfluxDB (special DB for time-series data)
- \* MongoDB
- \* Couchbase
- \* Cassandra
- \* Microsoft SQL
- \* Microsoft Access
- \* Briefly touched MLP databases

#### #### Monitoring

- \* Zabbix (and it's theory of items, triggers, etc., low level scanning)
  - \* Grafana
  - \* InfluxDB
  - \* netdata as agent
  - \* Graphite
  - \* SNMP for Linux systems & networking equipment
  - \* Windows SNMP provider
  - \* Windows WMI
  - \* Windows Perf
  - \* Microsoft PowerShell
  - \* Windows sysinfo
  - \* Windows logging and troubleshooting experience
  - \* Linux Filesystem Hierarchy
  - \* Linux logging (Syslog, journald and its features)
  - \* Linux Finger
  - \* S.M.A.R.T. (SmartMonTools)
  - \* Hardware sensors information (lm\_sensors, etc.)
  - \* Zabbix active agents
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#### #### CI/CD

- \* Travis - even written an article about Travis parts of which later was readopted in Summoner project & docs.
- \* Jenkins - had experience with deploying containerized Jenkins building pipelines to slaves, applying tests, writing build steps with Groovy and Maven.
- \* Hydra – as already was said deployed and maintained Hydra CI setup in a project.
- \* GitLab CI/CD – basic configuration.
- \* Solid foundations & writing of Haskell property testing. Knowledge of Category theory and related math fields and IT experience help in property testing.

#### #### Backup solutions

- \* Bacula
- \* BareOS
- \* Rsync
- \* Backup to Cloud storage via WebDAV or CLI
- \* Cloud snapshotting, backups, Glacier
- \* Filesystem snapshotting,
- \* RAID replication

#### #### Filesystem

- \* ZFS
- \* Btrfs

#### #### Programming & scripting languages experience

- \* Haskell (solid in depth understanding and practice of basics, solid Category theory and Haskell-related science fields)
- \* Nix
- \* Bash, Bourne Shell, Dash, Fish, ZSH, Bat files (also in POSIX standard, ShellFire framework)

#### ##### Used to code/can code in:

- \* Python (programming and portable system scripting)
  - \* Go
  - \* Node.JS (+ Jade, Express.JS)
  - \* JavaScript (+ jQuery, CSS, HTML5)
  - \* C
  - \* C++ (basics)
  - \* QT, QML, QTQuick
  - \* Assembler (TASM)
  - \* BASIC (ZX Spectrum, my first PC)
  - \* Visual Basic
  - \* Pascal
  - \* Lisp (ELisp)
  - \* C#, .Net
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#### #### VoIP

- \* Asterisk
- \* Network education helps me a lot here also

#### #### Network OS

- \* Cisco IOS 12.4T, and 15M
- \* Cisco Catalyst
- \* MikroTik RouterBOARD
- \* Had brief experience with Huawei VRP to understand how much it is rewritten IOS (but all names are changed). Some technologies also.

#### ## Knowledge of telecommunications

\* Have a higher degree at Telecommunications. Master and underway Postgraduate degree. Bachelor degree was more software centered (STP modification for PON networks). Master degree more hardware centered (WDM in PON networks). From my interest to hard subject solidly I know software, hardware, and underlying Telecommunication theory, Calculus, Probability theory, Classical electrodynamics that was strong points at my University.

- \* CCNA education. Love for Cisco tech & console.

With a team created networking lab at university. With complex infrastructure to function with a dedicated zone for holding practical laboratory assignments to the class.

Under the contract to conduct courses, I wrote part of the materials, and was main practical knowledge lecturer & held practices for business courses. Courses were created specifically for the Ukrainian national broadcasting company. From basics of networking, ISO levels 1-3, IP/TCP stack, Cisco and MikroTik basics, basics of switching, VLANs, basic routing & protocols, to basics of encryption, and VPN tunneling, client and site-to-site. Educated 6 cycles of the course.

That is why I have knowledge of networks on something more than Cisco CCNA level because of my Networking education & CCNA courses & some job and science experience of additional and essential topics like multi-area OSPF, MPLS, optical networks.

#### ## Contributions

- \* Big part of my contributions can be seen at GitHub:  
<https://github.com/pulls?q=is%3Apr+author%3AAnton-Latukha>

Full professional biography at <https://blog.latukha.com/bio>

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Work Experience	<p><b>Haskell &amp; Category theory self-education, participation in open source projects &amp; communities, self-improvement, private work (Terraform &amp; Ansible automation in industrial project)</b> January 2018 - June 2019</p> <p><b>Senior DevOps   Serokell OÜ</b> August 2017 - January 2018</p> <p>Management of DevOps team, collaboration with Dev team, writing Nix language code, NixOps, deploying &amp; maintaining Hydra CI, debugging Haskell &amp; Nix, work on company infrastructure, AWS, creating and maintaining for company access rights management, reporting to CTO &amp; CEO, weekly planning, Kanban, controlling the workflow.</p> <p><b>Freelance and private work</b> August 2014 - March 2017</p> <p>Creating unique solutions for client ideas/businesses.</p> <p><b>Doctor of Philosophy (Ph.D.), Telecommunications engineering   National Technical University of Ukraine "Kyiv Polytechnic Institute"</b> September 2013 - July 2016</p> <p>Was working in institute. Researching, writing material, teaching student classes, teaching business courses.</p> <p><b>Computer and Information Systems Manager   SI BIS</b> April 2013 - June 2014</p> <p>Was responsible for all infrastructure of medium-sized IT company (~70 fellow workers).</p> <p><b>Unix System Administrator and field engineer   Tangram</b> January 2013 - April 2013</p> <p>Was a Linux administrator, hostmaster, field support engineer.</p>
Education	<p><b>Doctor of Philosophy (Ph.D.), Telecommunications engineering   National Technical University of Ukraine "Kyiv Polytechnic Institute" (not finished)</b> 2013 – 2016</p> <p><b>Master of Technology (M.Tech.), Information and Telecommunication Networks   National Technical University of Ukraine "Kyiv Polytechnic Institute"</b> 2007 - 2013</p>
Language	<p>English, Ukrainian, Russian — fluent. Written and spoken on high business / technology level. Many years of experience negotiating with entrepreneurs, teams from «first world» countries. Primarily USA.</p>