



Juri Hudolejev

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Experience

Lecturer at Tallinn University of Technology

Since September 2018

Tallinn University of Technology is the only technical university in Estonia.

In cooperation with a fellow lecturer we have developed, are teaching and improving the IT Infrastructure Services course: hands-on course about IT infrastructure deployment and configuration automation for IT and cyber security students.

Infrastructure Engineer at Pipedrive

Since June 2021: Team lead

July 2018 — May 2021 (2 years 11 months): Senior

October 2017 — June 2018 (9 months): Mid

Pipedrive is developing an online sales management tool (CRM).

I have joined the Infrastructure team responsible for running backend hardware and software:

- Setup and monitoring of cloud infrastructure
- Configuration management, server setup and cluster orchestration automation (~1000 machines in 2017, ~4500 machines in 2023)

Over time Infrastructure team was split into several teams with different responsibility areas. Currently I'm leading the team that deploys, configures, operates, monitors and upgrades CouchDB, Elasticsearch, Kafka, RabbitMQ, email services (PowerMTA) and backup infrastructure (Bareos + AWS) — all together ~1800 servers.

I'm also actively participating in:

- alerting workgroup that develops and improves infrastructure monitoring and alerting procedures
- automation workgroup that develops full infrastructure automation with Ansible and Terraform

Expertise acquired and improved:

- Configuration management: Ansible, Chef, Terraform
- Development: Git, Python, Ruby, shell scripts (Bash/Dash)
- Operations: Bareos, Chef, Consul, CouchDB, Elasticsearch, Grafana, Graylog, HAProxy, Jenkins, Kafka, Logstash, MongoDB, MySQL/Percona, Nginx, PowerMTA, RabbitMQ, Wazuh, Zabbix
- Platforms: AWS, Debian, Docker Swarm, Kubernetes, OpenStack, VMware, Ubuntu
- Project management and team leadership

Infrastructure Engineer at OpenNode

October 2013 — September 2017 (4 years)

OpenNode is developing a virtualization and private cloud management toolkit: OpenNode OS, NodeConductor, NodeFabric.

I was involved in multiple projects to build cloud computing solutions:

- G-Cloud: government cloud in Sultanate of Oman
- STRATEGIC: European cloud for public services

My tasks include:

- Setup and monitoring of cloud infrastructure
- Design, implementation and support of continuous delivery pipeline
- RPM package maintenance for in-house products
- Server administration and setup automation (~50 machines)

Expertise acquired and improved:

- Configuration management: Ansible, SaltStack
- Development: Git, PHP, Python, Ruby, shell scripts (Bash/Dash)
- Operations: Apache, Elasticsearch, FreeIPA, Jenkins, JIRA, Logstash, Nginx, NodeConductor, Zabbix
- Platforms: AIX, CentOS, Fedora, OpenNode OS, OpenStack, Ubuntu
- Virtualization: Docker, KVM, OpenVZ

Lecturer at University of Tartu

January 2011 — May 2013 (2 years 5 months)

University of Tartu is the biggest university in Estonia.

I was teaching Applied Cryptography course: hands-in course about cryptographic concepts and protocols.

Infrastructure Engineer at ZeroTurnaround

August 2010 — October 2013 (3 years 3 months)

ZeroTurnaround is developing productivity tools for Java: JRebel, XRebel, Optimizer for Eclipse.

I started as a first member of future infrastructure team. My job involved a range of tasks:

- Building multi-server mission-critical systems and ensuring their maximum uptime
- Design and development of API for data exchange between different services
- Development and support of custom in-house order management system
- DEB package maintenance for in-house products
- Planning of automatic testing for company's public websites and services
- Server administration and setup automation (~30 machines)

Expertise acquired and improved:

- Configuration management: Ansible, Chef
- Development: Java, Mercurial, PHP, Python, Ruby, shell scripts (Bash/Dash)
- Integration: BatchBook, FogBugz, JIRA, MailChimp, Pingdom, Salesforce, Wordpress
- Operations: Apache, Cacti, Jenkins, LiveRebel, MySQL, Nginx, OpenVPN
- Platforms: Amazon Web Services, Debian, Ubuntu

Java Developer at Guardtime

June 2007 — August 2010 (3 years 3 months)

Guardtime is known for its keyless trusted timestamping technology.

Although hired as a Java developer I was also performing various devops tasks. My tasks included:

- Development of Java SDK and client tools
- Support of the development infrastructure

Expertise acquired and improved:

- Development: C, C++, Java (BouncyCastle, JUnit), Perl, Python, SVN
- Operations: Apache, LDAP, MoinMoin Wiki, PostgreSQL, Trac, TWiki
- Platforms: CentOS, Debian

Web Developer at BaIT Partner

August 2005 — June 2006 (11 months)

BaIT Partner business is integration of network and data security systems.

My responsibilities included:

- Development and support of custom e-commerce and task tracking systems
- Webserver administration

Expertise acquired:

- Development: CSS, HTML, JavaScript, PHP, XML/XSLT
- Operations: Apache, IIS, MySQL
- Platforms: Windows Server

Education

PhD in Computer Science (unfinished)

University of Tartu, Estonia

September 2010 — June 2012

Area: privacy-preserving data mining.

As part of studies, teaching Applied Cryptography course in Java (2011, 2012) and Python (2013).

MSc in Computer and Systems Engineering

Tallinn University of Technology, Estonia

September 2007 — June 2009

Thesis: Log Integrity Assurance with Cryptographic Timestamps.

Completed NATO CCD CoE Cyber Defence course (2008).

BSc in Computer and Systems Engineering

Tallinn University of Technologies, Estonia

September 2003 — June 2006

Thesis: Design and Testing of Digital Circuits.

Additional Information

Contributions to open source projects:

- BouncyCastle cryptography API for Java
- JIRA plugin for Logtsash
- Slack handler for Chef
- OpenStack Ansible Glance role
- Python client for Elasticsearch
- Python implementation of SAML2
- Wordpress plugins

Personal Details

Born in 1984.

Spoken languages: English, Estonian, Russian, basic understanding of German.

European driving license (A, B category).

Interests: automating everything, open source, snowboarding, traveling.