

Ivan Boyko

Swiss Army Knife of DevOps

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<https://www.linkedin.com/in/boykoivan>

Education 2003 MSc in Computer Science - degree with distinction - embedded Linux router
2001 BSc in Computer Science - degree with distinction

Certificates 2020 CKAD: Certified Kubernetes Application Developer
2020 AWS Certified Cloud Practitioner
2019 CKA: Certified Kubernetes Administrator
2017 Docker Certified Associate
2017 Microsoft Azure 214x
2012 ISTQB (BCS) Foundation Certificate in Software Testing
2011 ISEB (BCS) Intermediate Certificate in Enterprise and Solution Architecture
2009 Certified Scrum Master, Scrum Alliance
2007 Foundation Certificate in IT Service Management, ITIL. EXIN
2007 Introduction to CMMI (Staged and Continuous). CMU, SEI

Profiles <https://gitlab.com/optimisen>
<https://stackoverflow.com/users/902415/ivan>
<https://www.youracclaim.com/users/ivan-boyko-devops>
https://www.hackerrank.com/boiko_ivan

Work

July 2020 - June 2021 Softmill **DevOps Engineer (remote contract)**

- ▶ Managing complex infrastructures in AWS for global scale products
- ▶ Terraform, Kubernetes, CentOS Linux, ELK, GitHub, Jenkins, Ruby

Feb 2020 - July 2020 Softmill **DevOps Consultant for startups (contracts)**

- ▶ migration to **GCP** (Google Cloud Platform), **Kubernetes**, Helm, Cloud SQL, Memorystore from bare-metal \ Docker \ Swarm \ Ansible
- ▶ CI/CD for Infrastructure as Code via GitLab and Terraform
- ▶ **ELK** tuning, Elasticsearch, Logstash, Beats, Solr, DataDog

Feb 2019 - Nov 2019 Football Index **DevOps Team Lead (remote contract)**

- ▶ Led migration of Node.js and Java micro-services from Heroku to **Kubernetes**
- ▶ Led design of Infrastructure Platform on **AWS** with EKS, RDS, ES, SQS, IAM, SSO, SSM etc
- ▶ Inspired and influenced team and company to use modern Agile methodologies, **Continuous Delivery**, Infrastructure as Code, Pipeline as Code, Lean, Kanban, TDD etc
- ▶ Promoted 100% automation of infrastructure with Terraform, Helm, k3s, Docker, bash, Python and via **GitLab** pipelines
- ▶ Introduced Chaos Engineering and weekly Chaos games to destroy pieces of infrastructure and optimize re-creation of them from scratch
- ▶ Designed templates and standards for Continuous Delivery in GitLab for both applications and infrastructure
- ▶ Led technical discussions with Nasdaq, as third party SaaS provider, for integration on infrastructure level



Christophe Popov

Software Engineer | CTO |
Entrepreneur | Technology
Consultant

December 12, 2019, Christophe
managed Ivan directly

I trusted Ivan to lead the DevOps chapter because he could really understand the vision and the challenges in a startup environment with the added difficulty of running a trading service 24/7.

Apr 2017 - Nov 2018 Tomra, Germany **DevOps Architect (remote contract)**

- ▶ designed **DevOps Platform** and maintained it as an internal Product with SLAs and Roadmap

- ▶ created DevOps cross-team over 5 distributed offices, promoting Agile, Scrum, CD and TDD
- ▶ **containerized** build agents and all CI \ CD services with Dockerfiles, Registry, DinD, Windows containers
- ▶ setup HA cluster with **Docker** Swarm \ Compose \ Stack, hit limitations and moved to **Kubernetes**
- ▶ reduced pipeline Cycle Time from 2 hours => 20 minutes, by dependency analysis and decomposition of the monolithic codebase of 3 million lines of C++, with Pipeline as Code in **GitLab** and Jenkins, NuGet, SemVer
- ▶ authored numerous extensions in **Go** and **Python** over GitLab API, webhooks and Git CLI
- ▶ designed Monitoring and Alerting system based on **Prometheus** and **Grafana**
- ▶ standardised target platforms: Linux \ Windows \ ARM, 32 and 64 bit, clang, gcc, cmake, msbuild



Patrik Schmidt
Software Engineer making DevOps Infrastructure run smoothly, guiding cameras to see and helping robots making bo-beep-bo

Ivan showcased his broad knowledge leading to pragmatic and clean solutions. Not only his exceptional moderation skills are second to none, but he is always searching for the best solution with the big picture in mind. ... Motivating, encouraging and living a great spirit!

Aug 2016 - Apr 2017 Experian, UK

DevOps Lead (contract)

- ▶ customized Continuous Delivery **Maturity Model** and **Cycle Time** metrics to be used across the company
- ▶ migrated on-premise environments to **Azure** via ARM templates in Infrastructure as Code principles
- ▶ implemented CI \ CD for several projects, with pipelines in VSTS and deployments to Azure via ARM, **Docker** and **Ansible**, authored bespoke VSTS extensions
- ▶ provisioned SonarQube as a service in Azure – using Linux, Docker, Nginx, SSL, Ansible
- ▶ migrated from TFS 2013 to VSTS: sources TFVC to Git with history, MTM Test Cases and Work Items



Mark Hillier
Head of Quality Assurance and Application Support at Experian Data Quality
June 8, 2018, Mark managed Ivan directly

I can honestly say that Ivan is one of the best contractors that I have personally worked with.

Jan 2015 - Aug 2016 Tesco, UK

Continuous Delivery Lead (contract)

- ▶ implemented **Continuous Delivery** from scratch for *Brand Guarantee (Price Promise 2)* loyalty projects
- ▶ automated **Infrastructure Provisioning** and **Configuration Management** in AWS VPC, EC2, ECS, ELB, S3, Route53 for a Greenfield project using Docker, Ansible, Terraform, Python, Jenkins
- ▶ **led offshore** team in India in Scrum \ Jira for refactoring of legacy .NET projects (*Clubcard Points, Coupons and Vouchers*) to **CI \ CD** reducing Release cycle from months => hours
- ▶ migrated code from TFS to **Github Enterprise**; TeamCity, SonarQube, Splunk, ELK (Elastic Search), PowerShell, SpecFlow, NUnit, CA Lisa (Nolio), Nexus, NuGet, Dacpac, SSIS, Nessus, jMeter



Dave de Naeyer
Head of IT at Bounty UK Ltd
August 8, 2016, Dave managed Ivan directly

In addition to Ivan's substantial technical skills, he also has a great attitude and work ethic. His appreciation for what the developers needed made him their "goto" person, and his commitment and attention to detail meant that he could be relied on to deliver what was required.

Feb 2016 - Apr 2016 EposNow, UK

Continuous Integration Implementation (part time contract)

- ▶ implemented **CI** for a Greenfield project based on VSTS, private build agents in **Azure**, private NuGet server, **SonarQube**, NUnit \ Selenium, WebDeploy to **AWS EC2** for apps and db



Adrian Pickering
Software development leader, hands-on coder
January 31, 2017, Adrian managed Ivan directly

I have nothing but gratitude for Ivan's work - he has always been the best in class and I shall not hesitate in working with Ivan again, should I get the opportunity.

Aug 2014 - Jan 2015 Vodafone, UK **Senior Build Master (contract)**

- ▶ designed **Continuous Delivery** platform from scratch for a Greenfield project – TFS 2013, Lab Management, Release Management, PowerShell, Wix \ MSI
- ▶ automated **Infrastructure Provisioning**, reducing 1 month cycle => 2 hours (105 pages document > 1 page) – Hyper-V, SCVMM, Apache Tomcat and Solr, IIS, SQL Server, Exchange, Active Directory



Zaniar Ahmadi
DevOps Engineer at OctopusLabs
July 26, 2016, Zaniar reported directly to Ivan

Ivan is one of the most technically competent individuals I have worked with. He has excellent knowledge of Continuous Delivery and has the aptitude to create robust solutions. His domain knowledge is second to none.

Jun 2013 - Aug 2014 Tesco, UK **Software Build Manager (contract)**

- ▶ end-to-end **Continuous Delivery** for .NET projects in Marketing (*Price Promise, Fuel Save, Digital Clubcard*) based on micro-services, SemVer, Canary Releases, Load Balancers, multiple staging environments and all types of testing - Jenkins, Groovy, TeamCity, TFS, XAML, NUnit, Wix
 - ▶ web site of 100+ VMs serving ~ 1 million transactions per day
 - ▶ 100% automated pipeline from source to Prod in 40 minutes
 - ▶ up to 10 Prod deployments per day with **zero down-time**
- ▶ automated **Environment Provisioning** and prerequisites config - Tibco EMS, Oracle, .NET, IIS, Splunk, etc
- ▶ designed bespoke delivery framework in PowerShell targeting IIS, SQL Server, Windows services, scheduled tasks, perf counters, event logs etc - PowerShell, XML, XPath, CSV, WebDeploy



Simon Powers
Founder of Adventures with Agile
August 9, 2016, Ivan worked with Simon in the same group

Ivan's ability to get stuff done quickly and pro-actively makes the development and surrounding process smooth and easy. My recommendation is that if you are an employee looking for Ivan's skillset, you want to get him onboard quickly before someone else does!!

Jul 2008 - Jun 2013 British Gas, UK **Lead Software Build Manager**

- ▶ joined as ALM expert in Rational tools and to develop bespoke CI for SAP transports (Java \ Perl \ Oracle), I've grown to provide **CI \ CD** for 100+ projects across the company covering:
 - ▶ Version Control and CI (Git, Svn, TeamCity, GoCD, TFS, Rational, Ant, Maven, MsBuild, NAnt)
 - ▶ Testing (JUnit, NUnit, MsTest, SpecFlow, NCover, StyleCop, FxCop, CaliberRM, Quality Center)
 - ▶ Deployment (AWS EC2, Artifactory, WebLogic \ JBoss \ Tomcat, Wix \ MSI)
 - ▶ Environment management (Puppet, XML \ XPath \ XSLT), **scripting** (bash and PowerShell)
- ▶ led junior colleagues, built relationships with other teams (devs, ops, environments, security and DBA) to align complex processes and achieve smooth DevOps integration
- ▶ designed delta-packaging and incremental deployments for Data Warehouses (SSIS \ SSRS, Teradata, SAS)
- ▶ become a Certified Scrum Master in 2009 and worked as one for 5 months in the team of 15 people; with team-specific metrics discovered and mitigated major blockers, decreasing Blocked points 10% => 2% and Re-estimations 24% => 1%, increasing Planned work 72% => 94% and team Velocity 5400 => 8800 points
- ▶ designed ALM on-boarding **trainings** and have conducted them for 200+ developers



Nehal Dave
Agile Delivery Manager [Available for new role]
August 1, 2016, Ivan worked with Nehal in the same group

Ivan is someone who thrives on challenges. Someone who is proactive and can think outside the box. He played a huge role in automating our build process at Centrica. A true team player and joy to work with.

Dec 2005 - Jun 2008 Telelogic (now IBM), Russia

ALM Consultant

- ▶ provided technical consultancy to existing and prospect clients: pre-sale presentations, live demos, pilots, post-sale trainings and Professional Services customizations, based on RUP, CMMI and ITIL
- ▶ areas of expertise: Change Management, Configuration Management (ClearCase, CM Synergy, Change Synergy), Requirements Design with V-model, Analysis and UML Modelling (DOORS, Tau), Enterprise Architecture modelling (System Architect)



Sergey Tupchienko

Head of Methodology department - Sberbank-Technology

November 14, 2016, Ivan worked with Sergey in the same group

I recommend Ivan if you deal with Release, Change and Configuration fields. He knows them from conceptual level to deep technical implementation.

Feb 2005 - Nov 2005 Startup: Intercom, Russia

Technical Lead

- ▶ as a chief technical manager in this startup, I formed a team of 5 people and led development of new VoIP system (SIP, H.323, Cisco, Sipura, Grandstream, Asterisk), leading technical collaboration with stakeholders
- ▶ created IT infrastructure of the company, led design and SEO of the web-site

*Director General
Irkabaev A. V.*

22 February 2008
A.V. managed Ivan directly

Mr. Boyko had made a great contribution to the technical enhancement of the company. ... and demonstrated salient enterprising skills and capacity to rapidly deal with the assigned tasks.

Sep 2002 - Jan 2005 Paradigm (now Emerson), Russia

Software Build Manager

- ▶ built from scratch bespoke CI dev environment (Telelogic Change and Synergy, bash, Perl, Apache, DHTML, CSS and JavaScript), that supported parallel and distributed software development (Israel, Russia, USA, Australia) with automatic code sync and overnight testing, and later migrated to **CruiseControl**
- ▶ installed this system on 4 x R&D sites and provided training for 100+ developers
- ▶ administered R&D network (DNS, NIS+ and NFS) and builds on wide range of Linux \ Unix: RedHat Linux on x64 Itanium2 and x86 clusters, SGI Irix 6.5, Sun SPARC Solaris 6\8, AIX

*Shura (Alexandr) Zernov
project manager at
Paradigm Geophysical*

27 February 2008
Shura managed Ivan directly

Ivan has built unified system of change and configuration management, and automated Continuous Integration and nightly compilation with the analysis of results and reporting. He was responsible for the support and training developers in CM aspects, swiftly resolving accidental configuration conflicts.

I would like to emphasize good communication skills Ivan has and his ability to work in a big distributed team.

Sep 2001 - Jun 2002 Dateline, Russia

System Administrator

- ▶ LAN administration - Linux, FreeBSD, Wi-Fi, DNS, Active Directory, iptables firewall, NAT, VPN

Oct 2000 - Nov 2001 Net lab of University (BMSTU), Russia

Junior System Administrator

- ▶ LAN administration - Linux, FreeBSD, Apache, DNS, DHCP, routing

Mar 2000 - Dec 2000 STS, Russia

Web Developer

- ▶ Software development for LAMP - Linux, C++, PHP, PostgreSQL, MySQL