

Alexei Fedotov

DevOps Engineer who likes open source and AI, alexei.fedotov@gmail.com, Munich/remote starting on 2 Jan, +49 174 4969771, [Github](#), [Linkedin](#).

Current Employment

Infrastructure and DevOps Engineer at **Intel**, responsible for CI and testing pipelines for AI projects: **Triton** fork, **PyTorch**, **MLIR** extensions, **Modin**, **ICL**, **Graph Compiler**, **HDK** and others. Developed **bash**, **python** scripts, **cmake**-files. Migrated from Teamcity to GitHub actions. Compiled AI projects using **g++**, **nvcc**, **icpx**, **cython**, conda compilers. Evaluated pipeline failures with the focus on **conda**, Falcon Shores and **bare-metal runs**. **Helped** developers to overcome Linux and hardware challenges.

Processes

- access governance
- maintenance notifications info sharing
- sla
- release engineering scans, signing
- security compliance retention policy
- backups

Containerized Environments

- self-hosted runners
- arc runners
- jupyter profiles
- dev dockers
- perf measurement dockers
- reproducers

Pipelines

- product build infra build
- license check style check ASAN llvm-tidy integration tests
- regular functional tests cpu testruns gpu testruns functional sim testruns updating issues
- performance tests updating dashboard
- container tests updating ICL definitions

Infrastructure Control Language

- Kubernetes**
 - arc grafana jupyterhub prometheus prefect ray
 - kubernetes-dashboard docker-registry cert-manager ingress rook-ceph shared-volume
- Deploy**
 - maas terraform vagrant ansible multipass kubescape

Infrastructure

- Bare-metal**
 - ubuntu rocky raid datasets runners caches
- Clouds**
 - aws gke idc onecloud dbaas
- VMs**
 - kvm qemu docker
- GitHub**
 - repos actions runners caches

Previous Experience (25+ years)

Release Engineering. Java Device Testing Suite at **Sun Microsystems**, reliability and performance releases at **Intel**. Debian and RedHat-based Linux distributions.

Development. Functional simulator for ARM-compatible hardware at **Soft Machines**, **design docs**, OS compatibility layer, Java byte code verifier at **Intel**. And **more**.

Management. SQE teams (10+ engineers), open-source software business (first non-US **project** in ASF), virtual teams (50+ engineers).

Teaching. CMMi certification courses on quality management, and number theory, **4** Google Summer of Code projects, **10** student theses, **8** published papers, **8** patent applications.

Education

DevSecOps, machine learning, finance and management trainings at Intel
Master degree with **honors** in Mathematics, Applied Mathematics from Moscow State University