

Mikhail Dronov

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Experience

Senior System Engineer

Zeal Group

Mar 2022 - Present (1 year 7 months)

- Responsible for Linux-based infrastructure in production
- Helped to organize and implement full lifecycle of servers: creating, using, patching
- Worked with terraform for creating, scaling, troubleshooting vms in GCP, Alicloud
- Contacted with vendors: opened cases, troubleshooted incidents
- Researched and adopted Akamai, NS1 routine processes to CI/CD pipelines with terraform. Achieved 30-40% speed up for these processes
- Refactored Akamai resources for better daily using: Properties, WAF, Caching, etc
- Troubleshooted a lot of internal incidents with Akamai, NS1 and other external services
- Adopted IaC methodologies for daily routines: setup CI-CD pipelines, worked with terraform
- Refactored tons of Nginx configs. Setup reverse/tcp stream proxy. Setup CI-CD pipeline with GitLab CI. Setup LB scheme in GCP
- Proactive helped in incidents troubleshooting across many teams (IT, RnD, etc)
- Wrote couple of ops-utilities in golang to work with NS1 API
- Participated in many DoS mitigation activities using Akamai

Hands on:

RHEL/CentOS, Ansible, Containers, Git, CI/CD (GitLab), GCP, Alicloud, Terraform, Akamai, CDN/WAF/ etc, Foreman, Patching servers, IT support, ITIL

DevOps Engineer

Restream

Sep 2021 - Mar 2022 (7 months)

- Organized CI/CD processes to help several development team release software products faster and faster
- Helped build internal infrastructure based on Debian servers
- Helped with migrating servers from old versions of Debian to Debian 10 Buster
- Helped several teams to setup convenient ci/cd pipeline at Ruby on Rails projects
- Rewrote a lot of ruby plugins for custom monitoring system based on Chef infrastructure
- Packed services to deb packages and organized CI/CD Gitlab pipelines with aptl
- Maintained legacy Kubernetes cluster for staging environment, managed metallb LB
- Worked with old HP Proliant hardware, maintain Proxmox cluster

Used:

Linux, Debian, Docker, Chef/Ansible, Aptly, CI/CD, Legacy, Operations, k8s (staging), Ruby, Proxmox

Lead Firmware Engineer

Restream

Jan 2018 - Sep 2021 (3 years 9 months)

- Led local team of 2 engineers for porting linux to new IPC cameras
- Re-engineered and ported custom u-boot and Linux kernel to IPC cameras using vendor SoC SDK (~60 models)
- Contacted with many RnD teams to integrate IPC cameras to video-streaming service
- Organized deploy+update+testing processes for 500K devices based on Gitlab CI/CD
- Reviewed factory production lines in China and performed some security audits
- Contacted with many vendors in development, research and design activities
- Created build system for firmwares and packed it as external SDK for partners
- Led engineering workshops for company partners
- Organized several hardware hackathons for engineers (Skolkovo, Rostelecom, etc)

Used:

Linux kernel, Porting Linux kernel modules to new IPC hardware, Embedded Linux (IPC cameras), C/ shell programming, Porting firmwares with Linux kernel on various embedded arm-devices, Porting u-boot, busybox, Hacking the best programmer ever: ch341a, ESP8266, CI/CD, Testing devices, Engineering management

Firmware Engineer

Restream

Jun 2016 - Feb 2018 (1 year 9 months)

- Started to work as Linux Firmware engineer for vanilla Linux + U-boot porting to IPC cameras
- Learned how to use buildroot, yocto and other firmware building systems
- Learned how to write simple kernel modules and edit existing
- Learned how to reverse-engineered and reproduce firmware based on U-boot + Linux

Used:

Linux, Buildroot, U-boot, Shell, C

Software Engineer

Restream

Jan 2015 - Jun 2016 (1 year 6 months)

- Continued to work as middle web software engineer

undev **Junior Software Engineer**

Undev.ru

Jan 2014 - Jan 2015 (1 year 1 month)

- Started to work as junior software engineer
- Participated in a lot of commercial web projects as full stack developer
- Learned a lot of methodologies how to write clear and understandable code
- Participated in several international projects based on Ruby on Rails
- Packed web services in docker containers from Vagrant configurations

Used:

Ruby on Rails, React JS, Gems, React JS, Backbone JS, Linux, Docker, Vagrant, Ansible

Junior System Engineer

Volga-Dnepr LLC

Feb 2012 - Feb 2013 (1 year 1 month)

- Started career as system engineer based on Linux infrastructure
- Provided a valuable lifecycle for php application in production
- Integrated git to development processes for the first time in career
- Packed php-written service with all dependencies to iso image for installing without internet
- Maintained several Ubuntu-based servers

Used:

Linux, Ubuntu, Git, php, Bash

Education



Ulyanovsk State University

Engineer's degree, CALS technologies

2008 - 2014

Licenses & Certifications



Programming for Everybody (Python) - Coursera Course Certificates

7SEVF7HZQZ



Crafting an Effective Writer: Tools of the Trade (Fundamental English Writing) -

Coursera



Certified Kubernetes Administrator (course) - Pluralsight

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