

Alexey Dubovskoy

Work and engage in business in/from Ireland (Stamp 4)

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Me _____ Tech Lead | SRE | Full Stack Web Development _____

Innovative problem-solver, relationship-builder and knowledge-sharer with extensive experience in Web Development, DevOps and Technical Leadership.

Obtained degree in Math and Physics • Started my 15+ years path in Software Engineering • Advanced career to become Lead Development Engineer for a Silicon Valley-owned startup • Transitioned from web development to DevOps in 2019 • Currently leading Mobile Infrastructure team at Browserstack

Skills _____ Lead Developer _____

Languages and dialects	Ruby ★, Nix ★, Typescript, Javascript ★, Swift, Bash, Python, Go, C, HTML, CSS
Databases	Postgresql ★, Elasticsearch, Redis, MySQL, Big Query, Hadoop+Hive
Frameworks	Rails ★, Sinatra, Angular ★, Svelte
DevOps	Nomad ★, Consul ★, Jenkins ★, Ansible ★, k8s, Terraform, Docker, Unix/Linux, Nginx, Bazel ★, Prometheus
Leadership	Strategic Vision, Software Design, Architecture, Requirement Gathering, Project Planning, Execution
Soft skills	Collaboration, Mentorship, Conflict resolution, Finding win-win solutions

Work _____ 15+ years in Software Engineering _____

Browserstack, Ltd

Dublin, Ireland

Cloud-based testing platform with 3000+ types of devices and browsers. Over 50,000 customers in 135 countries including Microsoft, Twitter, and AirBnB.

TEAM LEAD OF MOBILE INFRASTRUCTURE TEAM | SRE

Oct 2021 - now

Key responsibilities

- Provisioning, monitoring and maintaining over 2,000 Linux and MacOS machines across 9 data centers
- Developing software for Production Engineering and Product teams to improve their operational effectiveness and developer experience
- Identifying pain points of other teams that can be solved by our team
- Creating technical documentation and tech specs
- Conducting post-incident reviews and postmortems. Implementing action items to prevent recurrence
- Mentoring team members to help them to upskill and develop their talents. Included observations, pair programming, running workshops, code reviews, facilitating brainstorming sessions, providing reading recommendations.

Key achievements

- Decreased the team's operational workload from 90% to 20%
- Developed a universal framework for automated deployments using GitHub and Jenkins
- Enhanced the security of machines in data centers and cloud by applying access best practices and updating OSES and packages to reduce the risk of attacks.
- Migrated hand-made AWS EC2 services to IaC defined with Terraform and Kubernetes
- Migrated to a new monitoring system (Prometheus, Alertmanager, Grafana) to replace Nagios and improve observability and availability
- Designed and implemented a secrets management system based on Hashicorp Vault
- Created a design document of hybrid cloud to connect on-premise data centers with AWS cloud
- Created a solution for zero-touch provisioning for MacOS and Linux machines

SENIOR SOFTWARE ENGINEER | SRE

Sep 2019 - Sep 2021

Key achievements

- Created a new Staging environment based on MacOS and Linux virtualization. Optimised performance and achieved nearly native experience for Guest OS and devices connected to USB.
- Created a new deployment system based on Hashicorp Nomad, Consul and Vault to deploy containerised or not applications.
- Created a configuration management framework to deploy configuration values and templates in 7 data-centers.
- Significantly improved deployed code consistency to 99.9% and by migrating dependencies management to use code defined declarative nix language.

Meetyl Europe, Ltd

Limerick, Ireland

Cloud-based platform for connecting companies and investors for direct meetings online, a Silicon Valley-owned startup

PRINCIPAL LEAD DEVELOPMENT ENGINEER

Jul 2017 - Apr 2019

Key responsibilities

- Planning engineering strategies for a department.

- Determining department goals and creating implementation plans.
- Providing expert advice to other engineers.
- Implementing process improvements.
- Being in charge of the technical part of the project, as well as of sprint planning in terms of development.
- Connecting departments and coordinating development.
- Identifying issues in the production phase and system and implementing monitoring solutions to overcome those issues.

Key achievements

- Designed and coded a Scheduling System from backend to frontend including custom rules for invitations, recurrence, multiple time zones.
- Designed and coded a Payments System using Stripe API for running per-feature sales and supporting billing cycles, upgrades and cancellations.
- Found suitable approaches for data management by designing and implementing architectural changes including designing an API, integration between frontend and backend, modularising and componentising code.
- Reduced the average waiting time for builds from 4h to 30m and average running time from 1h to 35m without spending extra budget by planning and managing the efforts of our CI build time-optimisation.
- Reduced the round-trip time between saving code and seeing changes from over 1m to 10s by planning and managing changing frontend builds to use Bazel.
- Created services to make developers' life easier, including a UI-kit app, a system for catching and tracing errors, automatic security audits, in-house performance monitoring and others.

SENIOR SOFTWARE ENGINEER Scheduling system design, permissions system design, authentication & logins

Jul 2015 - Jul 2017

SOFTWARE ENGINEER Test environment and code-base migration for meetings system

Feb 2015 - Jul 2015

Contractor

Moscow, Russia

FULL-STACK RUBY-ON-RAILS AND JS DEVELOPER Clients: Gettable (Restaurant booking system), Pulse.io (Developer Performance Tracker), Trainsmart (Training plans), Oma (Brand mentions tracking)

2011 - 2015

FULL-STACK PHP DEVELOPER Business and e-commerce sites

2006 - 2011

Innovation

Cooklang, open source markup language for recipes

CREATOR/MAINTAINER Grew community to thousands of users across the world, tens contributors, 500+ stars on GitHub

2020 - Now

Filtered, open source gem to create search filters with Rails' Active Record

CREATOR/MAINTAINER Developed DSL to declare complex filters in a simple and readable way

2019

Crossfactor, data science service for extracting geological features from satellite images

FOUNDER/DATA SCIENCE ENGINEER Developed a methodology to automatically map large areas, provided as a service to a big mining company (Eurasia Mining)

2008 - 2014

Education

Moscow Institute of Physics and Technology (State University)

Moscow, Russia

#2 in Best Universities in Russia, #475 in Best Global Universities (U.S.News)

MSc, BSc IN APPLIED MATHEMATICS AND PHYSICS

2001 - 2008

Recognition

10+ TIMES NOMINATED FOR PEER-TO-PEER RECOGNITION IN BROWSERSTACK

2019-2023

MY PROJECT COOKLANG WAS FEATURED ON BIKESHED, AN AMERICAN PODCAST FOR DEVELOPERS

2021

MY PROJECT COOKLANG REACHED THE FRONT PAGE OF HACKER NEWS, A POPULAR NEWS AGGREGATOR FOR TECH ENTHUSIASTS.

2021

RECEIVED A "BLACK BELT" AWARD FOR CREATING A SIGNIFICANT INNOVATION WITH THE STAGING REVAMP PROJECT IN BROWSERSTACK

2020

Hobbies

Multifaceted

Opensource Helps me to make the world a better place.

Hiking Allows me to discover new places.

Cooking Provides me with a way to explore new flavors and cuisines.

Woodworking Gives me satisfaction from creating something tangible with my own hands and a time for my brain to relax.