



# Alexey Dubovskoy

DEVELOPER AND EXPLORER

☎ +353 (85) 147 16 10 | ✉ dubovskoy.a@gmail.com | 🏠 alexeydubovskoy.com | 📱 dubadub | 🌐 dubovskoy

Ireland, 2015 onwards · Stamp 4

## Browserstack, Ltd

Dublin, Ireland

TEAM LEAD OF MOBILE INFRASTRUCTURE | SRE

Oct 2021 - now

- Designed and implemented a new monitoring system which replaced old Nagios setup. It features Infra as Code style and it's very easy to manage metrics and alerts. It significantly improved our observability and reduced number of problems with machines
- Designed and implemented secrets management based on Hashicorp Vault. It made us possible to quickly rotate keys when required and reduce related problems
- Engaged in activities in analyzing and finding ways to reduce security attack surface of our machines in data-centers
- Created a design of hybrid cloud which should connect our on-premise data-centers with AWS cloud in one private network
- Created a solution to achieve zero-touch provisioning for MacOS and Linux machine. This should significantly reduce Hosting efforts and make OS upgrades much easier and faster

SENIOR SOFTWARE ENGINEER | SRE

Sep 2019 - Sep 2021

- Created a new Staging environment based on MacOS and Linux virtualization. I optimized performance and achieve nearly native experience for Guest OS and devices connected to USB.
- Created a new deploy system based on Hashicorp stack. It replaced an old one based on Ansible which has a problem with consistency for machines which were offline during the deploy
- Created a universal framework for automated deployments with GitHub and Jenkins.
- Created a configuration management framework to deploy configuration values and templates in different data-centers.
- Migrated dependencies management to use code defined declarative nix language. It significantly improved deployed code consistency, developers experience and reduced Ops load

### Main Benefits and Contributions to Employer:

- Re-imagined deploy system and increased its throughput 10+ times, improved platform stability because of significantly better code consistency
- Re-imagined dependency management and improved platform stability
- Re-imagined configuration management and reduced Ops efforts and developers experience
- Re-imagined secrets management and reduced Ops efforts and improved security
- Re-imagined staging management and improved its utilization
- Re-imagined monitoring system and improved platform availability for customers

## Skilling Up Time

Limerick, Ireland

AFTER LEAVING MEETYL

May 2019 - Sep 2019

- Migrated my side-projects to use Infrastructure as Code and set up Continuous Delivery pipeline: using Terraform, Kubernetes (on Digitalocean) and CircleCI. It allowed my to abstract common infrastructure while keeping project related code separate.
- Build and released "My Quiet New Car". Learned about new approaches for componentizing Rails application and light but powerful StimulusJS framework
- Build and released Ruby gem "Filtered" for developing rich and reusable filter forms in a Rails application.
- Build an application for AppleTV with Swift UI to watch movies from "Russian Netflix". Explored and learned approaches of mobile development that I can bring to web.
- Migrated to Python code for my techniques for extracting geological features from Satellite Remote Sensing Data.

## Meetyl Europe, Ltd

Limerick, Ireland

### PRINCIPAL LEAD DEVELOPMENT ENGINEER

Jul 2017 - Apr 2019

- Designed and coded a Scheduling System from backend to frontend supporting business requirements, 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.
- Explored, tested and communicated various architectural changes including designing an API, integration between frontend and backend, modularising and componentising code, finding suitable approaches for data management.
- Mentored 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.
- Planned and managed the efforts of our CI build time-optimisation, reducing the average waiting time for builds from 4 hours to 30 minutes and average running time from 1 hour to 35 minutes without spending extra budget.
- Planned and managed changing frontend builds to use Bazel, reducing the round-trip time between saving code and seeing changes from over a minute to 10 seconds.
- 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

Jul 2015 - Jul 2017

- Designed and coded advanced Permissions System based on custom algebra, assisting product per-feature sales.
- Designed and coded advanced secure Auths System for login, login as a person, quick login as an invitee without an account.
- Created an agent-based and ODE-based model of Scheduling System for predicting user base growth.

### SOFTWARE ENGINEER

Feb 2015 - Jul 2015

- Set up test environment allowing making major code changes easier.
- Migrated codebase from DataMapper to ActiveRecord, giving access to a wider range of external libraries and simplified codebase.

### Main Benefits and Contributions to Employer:

- Architectural changes resulting in faster build times for new features
- Usage of Domain-Driven Design to reduce data inconsistency and simplifying usage for other developers
- An increased shared understanding of the codebase and development approaches
- Quicker and better feedback for developer changes
- Increased developer engagement leading to better code

## Innovation

International

### COOKLANG – FOUNDER/MANAGING OWNER

2020 - Now

- Pioneered the idea and created markup language for recipes and a parser.
- Created command line tools to work with recipe files
- Created iOS application which uses the markup language
- Promoted the idea and created active open source community

## Innovation

International

### MY QUIET NEW CAR – FOUNDER/MANAGING OWNER

2019 - Now

- Modelled user persona to identify new buyer behaviour. Designed prototypes and user experience based on Ruby-on-Rails application. Collaborated with designer and copywriter. Launch and marketing campaign.

### FILTERED – CREATOR/MAINTAINER

2019 - Now

- Discovered and developed an elegant Ruby gem based on a filtering approach in Ruby-on-Rails application. The gem was featured on HackerNews.

### ALEFFA – FOUNDER/FULL STACK DEVELOPER

2013 - 2014

- Meta-search for holiday packages. Orchestrated an army of crawlers to solve a problem related to name reoccurrences.

### CROSSFACTOR – FOUNDER/DATA SCIENCE SPECIALIST

2008 - 2014

- Researched and applied algorithms for extracting geological features from infrared satellite images. Data pre-processing (calibration, noise elimination), processing (supervised and unsupervised classification: k-means, nearest neighbour) and post-processing data for clients.

## Freelance

Moscow, Russia

### FULL-STACK RUBY-ON-RAILS AND JS DEVELOPER

2011 - 2015

- *GetTable: an online restaurant reservation service* (Full Stack Developer: Rails, AngularJS, PusherJS). Made it possible for call-centre people to avoid page reload and always see updated order lists.
- *Pulse.io: a service for monitoring developers' productivity* (Full Stack Developer: Rails, AngularJS, D3JS) Implemented advanced D3JS diagrams, integrated app with third-party code analytics tools (CodeClimate, GitHub) and command-line tools (git).
- *Trainsmart: a fitness web app* (Senior Front-end Developer. Stack: AngularJS). Implemented features on AngularJS and built CSS component framework tailored for the project and other reusable directive components.
- *Oma: an online marketing analytics service* (Junior Full stack developer: Rails, Postgresql, MongoDB, Elasticsearch, Redis, jQuery). I transferred an old code to a new design, built Ruby and JS reusable components.

### FULL-STACK PHP DEVELOPER

2006 - 2011

- Developed 20+ business and e-commerce web sites. Based on popular systems like Magento, Bitrix, Wordpress, Joomla, Drupal.

## Public presentations

### Ruby Ireland Meetup

Dublin, Ireland

TALK <HOW I LEARNED TO STOP WORRYING AND LOVE THE DB VIEWS>

Jun 2019

### Short Informal Mathematical Talks at University of Limerick

Limerick, Ireland

TALK <AGENT-BASED MODELING OF USER-BASE GROWTH AT MEETYL>

Nov 2017

### European Association of Geoscientists and Engineers Conference KazGeo 2012

Almaty, Kazakhstan

TALK <A TECHNIQUE OF SPECTRAL MIXING PROBLEM SOLUTION>

Nov 2012

### European Meeting of Environmental and Engineering Geophysics of the Near Surface Geoscience

Paris, France

TALK <A TECHNIQUE UTILISING A COMBINATION OF SUPERVISED AND UNSUPERVISED CLASSIFICATIONS IN SOLVING

GEOLOGICAL TASKS>

Sep 2012