



# Yaroslav Pogrebnyak

tech lead, solutions architect & software developer

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**tech blog:** [blog.pogrebnyak.info](http://blog.pogrebnyak.info)

I'm passionate technologist and  **problem solver**. My specializations include programming, software architecture, modern cloud technologies & teams management. I have solid **15+ years** experience in these fields, **strong analytical skills**, deep attention to detail, and proven ability to quickly puzzle out complex situations and provide working solutions. I speak both geek and business.

Interested in cloud development, solutions architecture and teams leading.

**development:** server-side, node.js, golang, python, java, rust, sql/nosql, APIs & protocols

**infrastructure:** clouds, networks, microservices, docker, devops, linux, architecture

**leadership:** agile, remote, tech leading, team guidance, coaching, management, influencing

**video:** codecs, streaming protocols, realtime, web rtc, transcoding, nvidia gpu, ffmpeg api

## EXPERIENCE



### [Teradek LLC](#)

*Tech Lead & Solutions Architect • 2013 - present*



Designed architecture, lead and performed development of server-sides for a bunch of Teradek Cloud Products, including industry-leading products: [Core](#), [ShareLink](#), Helios Streaming Server.

Responsibilities: R&D, solutions architecture, cloud microservices architecture & design (rest apis with 500+ endpoints), databases design, custom protocols, programming, technical guidance, team management, organizing workflow, code reviews, production troubleshooting, and customer support. Design and implementation of full-features streaming server with restreaming, transmuxing, cloud recording, transcoding, overlaying and backup switching.

Implementation of systems capable of handling 1000 concurrent real-time streaming sessions and dealing with up to 400+ Tbytes video traffic monthly. Handling 50 Tbytes+ recorded and processed videos live stream recording and live uploading to cloud storage with processing. Multi-tenant architectures for a management and control system capable of handling more than 10000 organizations and 20000 accounts. Physical architecture and management of 1200+ instances

js, **node.js**, npm, **golang**, rest apis, rust, custom binary protocols, socket.io, **mongodb**, **redis**, ansible, **docker** (+ swarm), ssl, linux, ubuntu, amazon aws, git, ci/cd, ffmpeg api, multitenant architecture, microservices, services integration, transcoding, h264/h265, webrtc, nvidia gpu, rtp, rtmp, mp4 ...



## [Yaroslav Pogrebnyak](#)

*Freelance Developer & Consultant* • 2013 - present

### Open-source contributions

- [gobetween](#) cloud-native load balancer
- ffmpeg contributions: [overlay\\_cuda](#) gpu filter, and other...
- [nodejs misc modules](#) (logging, config, etc)

### Software design, development and consulting

Clients include: [Augmented Pixels](#), [JustPremium](#), [ITSchool Hillel](#), [Mindful365](#) & others.

**nodejs**, **golang**, **rust**, **java**, spring, postgresql, psql, postgis, **python**, flask, angular, c, c++, amazon aws, git, rest apis, basecamp, android, public speaking, **technical coaching**, java consulting, c programming, ffmpeg api.



THOMSON REUTERS

via  ciklum

## [Thomson Reuters](#)

*Senior Full-Stack Developer* • 2012 - 2013

Working in a mobile technologies department:

- [London 2012 Olympics](#) - building system that powered real-time olympic games score / schedule updates for mobile application.
- Push Notifications Service (for iOS & Android) - designing and building backends that enable better notification management, queueing and scheduling.

**java**, jersey, **jpa**, **spring**, jdbc, mysql, apple push notifications, aws, etc



via  ciklum

**Apsmart** (acquired by Thomson Reuters) • **2011 - 2012**  
*Senior Full-Stack Developer*

Working in mobile innovation services startup on various projects:

- Skurun (sales mobilizer) - creating RESTful API & Admin Panel
- MPme (curated radio) - creating backend radios monitoring services & Admin Panel for data editorial needs
- We&Co - worked on their previous 'thank different' platform on integrating location & map services.
- Other projects - designing and implementing APIs, infrastructure, deployments, prototyping, etc.

**java**, jersey, jpa, spring, mysql, **elasticsearch**, redis, webdis, **ruby or rails**, **node.js**, amazon aws, heroku, salesforce, git, linux, protocol buffers, html/css, jquery, rest/json



via  ciklum

**ASmallWorld**  
*Senior Ruby On Rails Developer* • **2010 - 2011**

Working in an agile distributed team of Ruby hackers on a popular private social network. Building better backend architecture, integrating PayPal payments, etc.

**ruby, rails**, mysql, mac os, amazon aws, paypal api, mongrel, html/css



Creating Trust Online®

**Comodo**  
*Software Developer* • **2008 - 2010**

Working on plenty of security and social projects: developing server-side & designing recommendation algorithms for web bookmarking service, hacking SSL for secure email applications, and taking part in other security-related projects.

\*nix, **java**, maven, ant, spring, struts, servlets, **jpa/hibernate**, ehcache, lucene, aspect, jmx, **scala**, xml, xsd, xpath, **sql**, postgresql, mysql, c/c++, apache, apr, libxml2, make, bash, openssl, mod\_ssl, collaborative filtering, graph clustering, **python**, pyramid, regexp, sqlalchemy, **js**, php, webdav, ...



**Filatov Institute of Eye Diseases**  
*Intern Systems Engineer & Developer* • **2006 - 2008**

Network and systems administration. Also, I've developed a patient account system on .NET platform for the laser clinic laboratory.

## EDUCATION



### **Odessa National Mechnikov University**

**Computer science and informational technologies • 2002 - 2008**

Graduated with Masters degree and diploma with distinction (A+)

## LIFESTYLE & HOBBY

Travel, hiking trekking, guitar, reading, gym, electronics, open source, health, writing & inspiring