

## Roman Shmelev, Software Engineer/Architect, 18 years of expertise

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Time zone: GMT+1, Europe

### Summary:

Software Engineer/Architect with 18 years of expertise in backend dev: streaming media, high-load systems, video processing and delivery across multiple platforms. Proficient in CDN and video site development.

Enthusiastic about taking challenges and finding elegant/simple solutions.

I have experience gathering teams and leading them.

### Technical:

- Backend: Node.js, Typescript, Golang, Java, Rust, Wowza, Linux, AWS
- Online video/streaming media solutions
- Operations, automations, bots and serverless

### Professional:

2009 - Present, Software engineer/architect, Wowza authorized consultant.

- Founder of [dynamicstreaming.net](https://dynamicstreaming.net) and [Wowza](https://www.wowza.com) authorized consultant (11 years):
  - scalability, high load, consulting numerous companies, custom solutions
- Architecting/building large streaming media projects:
  - worldwide live streaming infrastructure, 7M+ broadcasts/month
  - core of multinational VOD theatre site, 65M users/month, 6000+ movies
  - video chatting platform media backend
  - timelapse generation service and IP cams manager (60+ on 6 continents)
  - live/VOD streaming CDNs for some European companies

Technologies: Java, Javascript/Typescript, Golang, Node.JS, Wowza, PHP, Postgres, MySQL, HTML/CSS/JS, Amazon AWS, Docker, Ansible, Chef, Cloudflare, libav, ffmpeg, GitOps, K8s

2006 - 2011, Senior developer, Auragan LLC/Advection.net:

- building CDN fo Advection.net, supporting customers
  - security (DLP, PPV, geo-blocking etc.)
  - features incl. timeshifting, server-side playlists, balancing, integrations
  - monghtly reports generation + live stats + server health monitoring
  - Java, Js ,C++, C#, PHP, Perl, Wowza, MySQL, HTML/CSS, AWS API, libav

### More about me:

- MS in CS, Kharkiv National University of Radioelectronics, with honors
- founder of "Ш++" free programming school (<https://programming.org.ua>)
- fan of [adventofcode.com](https://adventofcode.com), [Standford cs106a](https://standford-cs106a.org/), [obsidian.md](https://obsidian.md), [haskell](https://haskell.org/) and [serverless](https://serverless.com/)