# Hi 👋 I'm Vasily Zubarev

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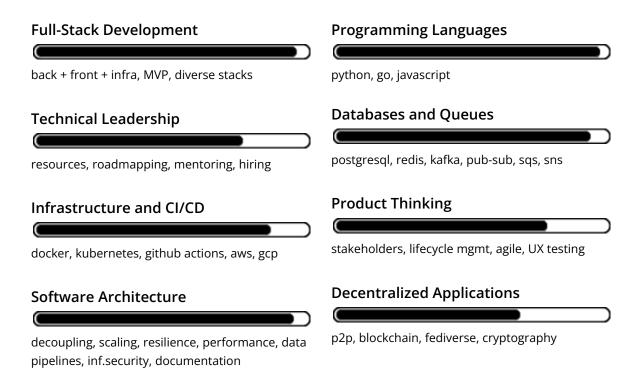
I'm an engineer from Berlin = with 10+ years of experience.

My main languages are Python, Go, and sometimes JavaScript (TypeScript), as I specialize in web apps. I have mostly worked in startups and mid-sized companies because I enjoy solving practical problems and delivering value to users.

For the past 3 years, I've tried my hand at being a team lead, because I believe that the success of a project is not only based on clean code and architecture, but also on good communication and cooperation within the whole team. I'm still a coder at heart, but I recognize how important it is for all parts of the system to work together.

I value simplicity in my projects. I believe that all complex systems are rarely built all at once but evolve from simpler systems throughout time (Gall's Law).

# **Skills**





### **Team Lead, Tooling + Signer App @ Parity Technologies**

Berlin, Germany Feb 2021 – July 2024



Parity is a company behind one of the top-ten L1 blockchains called Polkadot.

- I was hired to build the Tooling team. We created a set of tools (Python + JS/TS) for blockchain developers to test decentralized networks, automate code licensing and control access.
- We were assigned to rewrite the <u>Polkadot Vault</u> (ex Parity Signer) from React
  Native to a truly native iOS/Android UI + Rust core (for security). I interviewed
  and hired two great Swift and Kotlin developers, a UI designer and coordinated
  the project.
- After that, I switched to the Business Automation team, where we made internal products to automate processes for non-tech teams: financial reports, event management, meeting rooms and desk booking, chatbots, etc.
- The biggest app we've built was the <u>Hub App</u> our internal and very opinionated system for managing offices in 3 countries and organizing all internal and external events for 300+ remote workers and the community.

### Platform Developer @ Anaconda, Inc.

Berlin, Germany + Austin, TX, USA (remote) Nov 2019 - Feb 2021



Anaconda is a popular data science platform in the Python community.

- Worked in a team of 3 people that developed <u>Team Edition</u> a self-hosted package repository solution for companies.
- Took a lead in developing a CVE vulnerability analysis system with daily updates and automated security reports.
- Bootstrapped <u>Anaconda Cloud</u>, a new SaaS platform for data scientists.
- Engineered a secure, stateless, and decentralized authorization system for microservices utilizing OAuth, JWTs, IAM, and Envoy-sidecars within a Kubernetes environment.

#### **Software Engineer in Logistics @ Delivery Hero SE**

Berlin, Germany Sep 2018 — Nov 2019



<u>Delivery Hero</u> is a food delivery company. I was part of the Logistics department.

- Our team was responsible for dynamic pricing and delivery time prediction.
- Using PostGIS and OpenStreetMaps, we did a lot of "magic" over geometry: isochrones, geohashes, routing algorithms, fast time estimations, etc.
- That was the first time when I was fully immersed into the DevOps ideology.
   Managed infrastructure as code in Kubernetes, Helm and Terraform. We had
   CI/CD for 45+ countries in 4 AWS regions!

### Lead Backend Developer @ Sola.ai (aka. Plag)



Vilnius, Lithuania 2014 — 2018

<u>Plag\*\*</u> (renamed to Sola later) was a geolocation based social network.

- Developed fast real-time asynchronous backend in Python, Asyncio, Websockets, PostgreSQL, RabbitMQ, Redis and various AWS services.
- Implemented a smart newsfeed system that heavily used geolocation and smart content analysis.
- Survived the first Blockchain hype dealing with \$2.5 million ICO (pretty intense!).
- Built a decentralized content delivery network using IPFS and DHT.
- We had a lot of problems with fraud, spam and we were actively defending ourselves right on the air. Fun time!

#### **Developer and Researcher @ Sensee**



Vilnius, Lithuania 2014 — 2016

Real-time video communication app with AR features. We started it with the same team as the previous project.

- Designed and built an asynchronous backend for 10,000+ simultaneous connections using Tornado (popular async framework at the time) and Websockets (not so popular that time:D)
- Implemented a peer-to-peer video and data transmission system using WebRTC that dramatically saved costs for video-processing infrastructure.
- Using OpenCV, I've developed a real-time object detection algorithm which was ported to iOS and Android by our C++ developers

#### **Backend Developer @ We Heart Pics**

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Moscow, Russia (remote) 2012 — 2014

Instagram-like social network with daily photo-challenges for 2M users.

- Inherited a monolithic API on Python, Django, MySQL, AWS and supported its development until the very end
- The project was changing often and its admin interface was constantly breaking down. So I've created an automatic admin generator called GodMode and open-sourced it later

#### **Freelance Web Developer**



Novosibirsk, Russia 2009 — 2012

During my university time, I started as a full-stack web developer, coding e-commerce websites and web-portals, which were popular at the time.

# **\*** Education

#### **Novosibirsk State Technical University**

Master's Degree with honors 2008 - 2014

Conducted extensive research in the fields of Natural Language Processing and Search Engines, resulting in the creation of an adaptive semantic text analysis algorithm. As my thesis, I developed a "smart parser" for converting natural language text into a structured semantic "knowledge", contributing to the functionality of early-days "smart-assistants". Long before the good ChatGPT days:)

# **e** Personal info

Male, 32 y.o., originally from Siberia Russia. Moved to Lithuania in 2014, and to Berlin in 2018, where I am based today. Still love this crazy place.

**Hobbies:** traveling on my self-built VW camper, DIY'ing something at home, blogging about tech, playing with my HomeLab, archery.

#### Languages:

**ﷺ** English — C1

German — B1

Russian — native

Pet-projects on GitHub: vas3k.club, Infomate, Pepic

#### Some of my articles:

- Computational Photography. From Selfies to Black Holes
- A Team. How to build awesome teams without bullshit
- Machine Learning for Everyone
- How Machines Predict The Weather For Us
- Machine Translation. From the Cold War to Deep Learning