Andrey Kuzmin

he/him

CONTACT

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I am a Software Engineer with 18 years of experience in web technologies and distributed systems. I bridge gaps across frontend, backend, and infrastructure to deliver impactful products. I use my diverse experience and skillset to mentor junior engineers, design scalable systems, and troubleshoot complex issues.

WORK EXPERIENCE

Staff Software Engineer   **Arrival** • May 2022–Present
- Led integration of web apps into a company-wide suite of tools to facilitate discovery and adoption
- Coordinated authentication upgrade across multiple teams and systems to enable single sign on and address security risks
- Mentored 4 software and computational engineers in Elm, Rust and Python
- Saved $2k per month on AWS and reduced maintenance costs by simplifying computational infrastructure
- Managed stakeholders and led 3 engineers to expose the estimated costs for EV parts through GraphQL API in Rust
- Reduced CI time by 5 minutes on average for pipelines that rely on Nix

Senior Software Engineer   **Arrival** • Feb 2021–Apr 2022
- Developed a tool for designers to estimate manufacturing cost of EV parts
- Developed browser UI with interactive 3D visualisation for the tool
- Designed a secure method to share computation result files
- Reduced CI time from 20 to 5 minutes by simplifying the build and deploy process of the UI monorepo

Senior Software Engineer   **SoundCloud** • Apr 2018–Jan 2021
- Ensured confident deployments with end-to-end tests of payment flows
- Halved develpoment time of marketing campaigns and new payment features by unifying the UI codebase across web, mobile web and Android
- Served in on call rotations for payment services and web frontend
- Led 3 engineers to implement new payment flow for Mastering, upgrade legacy paymend SDK and enable new payment methods
- Mentored 2 junior engineers in TypeScript and React.js
- Conducted interviews with frontend and backend engineers and designers, reviewed coding challenges

Software Engineer   **SoundCloud** • Oct 2016–May 2018
- Developed Play queue on web, also called "Next up"
- Developed SoundCloud app on Xbox and Windows
- Led development of the new home page on web, powered by recommendation systems
- Led development of the GDPR settings page on web
- Set up dashboards for web platform KPIs

Senior Frontend Engineer   **Zalando** • Sep 2014–Sep 2016
- Enabled teams develop and deploy their fragments of the Zalando website independently of each other, invented and implemented a service for frontend microservices
- Led 4 engineers in the checkout team to move their product to the new frontend architecture and implement the new checkout UI in React and backend in Node.js
- Contributed to frontend team growth by interviewing candidates
- Wrote articles for the company engineering blog

EDUCATION

Novgorod State University   Sep 2002–Jun 2007
Engineer's degree, Software Engineering   Veliky Novgorod, Russia

SKILLS

Frontend • Backend • Rust • Python • TypeScript • Elm • Ruby • Scala • Nix •
Distributed Systems • Continuous Delivery • Functional Programming • SQL
• Node.js • React.js • AWS • K8s • WebGL

PROJECTS

Prometheus Alertmanager   github.com/prometheus/alertmanager
Manages alerts sent from Prometheus. I designed and developed the UI
and reviewed the changes from other contributors.

Browser Games   unsoundscapes.itch.io
Various browser games that I created at game jams and hackathons. I also
organized several Elm game jams. The games are open source and can be
found on my github page.

Elm Physics   github.com/w0rm/elm-physics
3D Physics engine inspired by Cannon.js, implemented in Elm. You can read
more about it on Elm Discourse.

Elm OBJ File   github.com/w0rm/elm-obj-file
A neat way to load and transform 3D geometry from the OBJ file format in
one go with composable decoders.

OUTREACH AND PUBLIC SPEAKING

In 2017–2020, I organized the Elm Berlin meetup and ElmBridge,
a bimonthly workshop dedicated to teaching Elm to folks from
underrepresented groups in tech. Additionally, I presented at functional
programming conferences, most notably Curry On, Elm Conf (Strange Loop
preconf), and Lambda Days.

HOBBIES

My hobbies include yoga, going to concerts and learning 日本語.