Artsiom Yafremau

Front-end Developer

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SUMMARY

Front-end developer working mostly in React and TypeScript. Also contributed 41 merged pull requests to the Ladybird browser engine, in its CSS layout, JavaScript, regex and image decoding code.

EXPERIENCE

Open Source Developer, Ladybird browser and independent projects — Jan 2024 - Present

- Contributed 41 merged pull requests to the Ladybird browser engine (C++), Jan 2025 - Jun 2026.
- Brought its regex engine to a 100% pass rate on the ECMAScript conformance tests (test262), adding Unicode case-insensitive matching, string properties, modifiers and duplicate named groups.
- Implemented the JavaScript built-ins Math.sumPrecise and JSON.rawJSON, and fixed CSS layout bugs in flexbox, grid and aspect-ratio sizing.
- Fixed image decoding bugs in the PNG, JPEG, GIF, BMP and ICO loaders.

Front-end Developer, Bejamas — Remote — Jun 2023 - Dec 2023

- Delivered three e-commerce websites for different clients in Next.js and Astro.
- Raised Lighthouse performance scores from about 60 to 95+ and improved SEO: code splitting, lazy loading, fewer re-renders and a migration to Astro islands.
- Connected Contentful and Storyblok (headless CMS) for blogs, product catalogs and page visuals.

Front-end Developer, Softarex Technologies — Minsk, Belarus — Apr 2021 - Apr 2023

- Built features across an e-learning platform for large tech companies: online classrooms for 50+ people, WebRTC video calls and interactive labs.
- Designed a React data dashboard and led the three-person team that built it, from the first idea to deployment. It displays millions of cells in a nested structure of days and classes.
- Worked on three client projects at the same time in React and TypeScript.
- Reviewed code and mentored teammates.

PROJECTS

Vexel Rust, WebAssembly, React, TypeScript — image-inspector.netlify.app source

Image decoding library with no codec dependencies, written from scratch for more than 20 formats. Decodes JPEG as fast as libjpeg-turbo on one thread and faster on several.

Browser tests React, TypeScript, WebGL, WebGPU — browsers-tests.netlify.app source

Test page for browser engines with over 60 sections of HTML, CSS, JavaScript and Web API tests, from grid layouts and blend modes to WebGL, WebGPU and Workers.

UI-Kit React, TypeScript, SCSS — ui-demo-kit.netlify.app

React component library: 26 components written from scratch, with light and dark themes.

AVIF plugin for ImageGlass Rust, FFI — github.com/aplefull/imageglass-avif-plugin

Opens still, animated and HDR AVIF files in the ImageGlass viewer. Downloaded over 300 times.

SKILLS

Languages: TypeScript, JavaScript, Rust, C++, Python, SQL
Front-end: React, Next.js, Astro, Svelte, Redux, SCSS, Tailwind CSS
Back-end: Node.js, Express, GraphQL, PostgreSQL, MongoDB, Firebase
Tools: Git, Docker, GitHub Actions, Vite, Webpack, Vitest, Puppeteer, AWS
Web platform: WebAssembly, WebRTC, WebGL, WebGPU

EDUCATION

Bachelor of Science in Information Technologies — 2018 - 2022

Belarusian State University of Informatics and Radioelectronics (BSUIR), Minsk, Belarus