



Klemen Slavič

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I've been a professional full-stack engineer since 2000. I've worked on numerous large-scale applications ranging from *mobile web development* to *backend database* and *cloud operations*. I prefer working with web technologies but I don't mind getting my hands dirty with other languages and platforms.

I am based in Ljubljana, Slovenia.

Core Skills

I'm an expert in all **browser engines** and have been leveraging **JavaScript** to produce **high-performance** and **low-latency UX** for the past 20 years, supporting browsers all the way back to IE 5. I closely follow new developments in this ecosystem.

A good frontend can only cope so well with a slow or poorly written backend, so I've invested time in thoroughly understanding **HTTP**, **caching** and **streaming** to build low-latency and fault-tolerant servers that couple well with frontend clients.

While I mostly work in **TypeScript**, I've built software in **PHP**, **C#** and **Lua**. I'm always looking forward to expanding the number of languages I can code in as I believe every language brings a useful perspective on solving problems.

I strongly believe in proving software works through **automated tests** and **logical induction**. Whenever feasible, I prefer writing tests to manual verification.

Language and education

Languages spoken

- Slovene, English (native)
- German, Croatian, Serbian (conversational)

Education

- *Gimnazija Vič*, Ljubljana high school
graduated in top 5% nationally (2002)
- *Fakulteta za Kemijo in kemijsko tehnologijo*, University of Ljubljana
studied *Biochemistry* (2002-2006)

Selected Work Experience

Blotout Inc.

blotout.io

Lead Engineer, 2023 – current (remote; Ljubljana, SI)

Blotout produces software that enables ecommerce and other sites to leverage first-party cookies and persistent identities through Cloudflare infrastructure. It allows forwarding analytics events with enhanced user attribution to any number of channels through a compact and low-latency API coupled with a slim JS SDK.

- As team lead, I manage the development team working on the EdgeTag product, covering the full stack of React frontend, the Postgres-backend REST API and the deployment APIs used to deploy each site's Cloudflare infrastructure.
- We work in weekly iterations where incoming issues and upcoming features are planned out in weekly iterations. It is my job to manage the backlog and assign tasks, including making sure we keep delivering on time.
- As a very hands-on company, I and other engineers talk directly to customers to solve problems that arise for situations off the beaten path.
- In addition to maintenance and building new products on top of the existing stack, I also work on upskilling developers through regular checkins and mentoring. I host fortnightly Zoom calls where we discuss upcoming changes and present new techniques, making the process collaborative and approachable.
- I also run experiments and build prototypes to explore new product ideas, which has already resulted in one successful product called **ShopWallet**. This pilot program was instrumental in developing a clear path for later products to follow, most notably **ShopGPT**.

Resource Guru

resourceguruapp.com

Senior Engineer, 2016 – 2022 (remote; Reading UK, Ljubljana SI)

Resource Guru is a SaaS provider for scheduling people and resources with a novel clash management approach. The company is fully remote. During my time at the company, I worked on a number of notable upgrades and features:

- I rewrote the existing reporting feature to improve report generation responses by over 1,000× and wrote a custom XLSX pivot table generator that produces interactive tables typically in less than a second.
- I helped rewrite the visual scheduler that customers use to manage their schedules. This enabled users to simply scroll the timeline across time and resources and have data loaded reactively. The rewrite also let us deliver the application to mobile web users, something that was previously intractable with the legacy application.
- I introduced error capturing and reporting using Sentry, and introduced a modernized pipeline for frontend code using Babel, TypeScript, Webpack and PostCSS.
- I helped rewrite and enhance the existing customer-facing API from a *Ruby on Rails* implementation into a *NodeJS* codebase, which resulted in enabling previously intractable features (repeating and multi-resource bookings, timezone manipulation, etc.) with a worst-case response time improvement of over 1,000×. This also massively reduced table lockwait timeout errors that plagued the previous implementation.
- I led the introduction and implementation of Storybook and Chromatic as a design review and regression testing tool for components and features.

Celtra

celtra.com

Lead Software Developer, 2011 – 2016 (Ljubljana SI, San Francisco CA)

I worked for Celtra in the *Ad Delivery Team*. My task was to develop, maintain and debug the rich media experience that powers ad display on various browsers and devices.

- I developed the core of the ad management interface to replace the previously unstructured application, which enabled rapid feature development.
- I developed and maintained the mobile ad runtime (a proprietary JavaScript library) that powered ad display on mobile and desktop web browsers, and inside native iOS and Android applications through a number of partner ad display SDKs.
- I worked in a distributed development environment that included developers in San Francisco, New York, London and Ljubljana.
- I spent considerable time researching browser internals and graphics glitches in order to produce a set of guidelines for developers. As part of this initiative, I held regular meetings with the teams to share these insights, which helped decrease the number of client-facing bugs by roughly **80%**.
- I produced internal training, onboarding material and webcasts to document all aspects of the mobile runtime. Some of this material was subsequently used to assist clients with building their own custom solutions with my assistance.
- In addition to this core development role, I initiated and managed an experimental program that enabled fast iteration of ad format prototypes and produced a number of successful creative formats. This process also enabled us to develop production-ready formats in a matter of days rather than several weeks as was the case in the past.

Kompas Xnet

kompas-xnet.si

Trainer and Developer, 2008 – 2011 (Ljubljana SI)

Before Celtra, I worked for Kompas Xnet, a Microsoft Partner company where I attained *Certified Trainer* status for *Microsoft* and *Adobe* products.

- I taught the official Microsoft curriculum to clients attending official developer courses and I developed and taught a custom course for Adobe products based on their official training books and materials.
- As a trainer, I also spent time on-site with clients that required training in web and .NET technologies.
- In my role as developer, I was tasked with frontend development for a series of client websites and desktop applications in *Silverlight*, *WPF*, and *Windows Forms*. Most notable was a rewrite and redesign of the website for BTC-City, the largest merchant center in Slovenia.
- I also filled the role of graphical designer and frontend developer for the company's printed products and the website itself.
- I worked closely with Microsoft developer evangelists and MVPs, developing with and presenting cutting-edge preview technology at the time (*Azure*, *Silverlight*, *WPF*, *ASP.NET MVC*).

Tobonet, Httpool

httpool.com

Junior Systems Engineer, 2006, 2007 – 2008 (Ljubljana SI)

After *Tobonet* and its *ToboAds IP* was bought by *Httpool* in 2007, I rejoined the team to work on their advertising platform, working on the delivery backend, frontend code and the ad management interface built in *Symfony* using *jQuery* and some auxiliary plugins.

- I helped develop server-side code that matched ad views with keywords and worked on text feature extraction services. This included applicative research into various statistical and lexical methods known at the time.
- We wrote cross-browser ad display code that guaranteed compatibility with the 98th percentile of browsers at the time.
- I developed an internal *Symfony* plugin system that enabled translators to submit their work using inline editing within a running application instance.
- I helped port the code base from PHP4 to PHP5.

Noovo

Frontend Software Consultant, 2008 (Ljubljana SI)

During my time at *Httpool*, I was called into the sister company *Noovo* for a couple of months to assist with developing and optimizing their widget framework and load times on their social web application. We achieved that goal by creating a snappier and more responsive experience for users, dropping *Time to Interactive* from over 15 seconds down to 2 seconds or less.

Oxylus

Lead Developer, 2006 – 2007 (Ljubljana SI)

I developed a software package that helped managed the company's entry into Internet domain registration and management by automating the DNS registration procedure. I also worked on a client project coding and redesigning a website with CMS capability.

Education

High School

During high school I had the opportunity to participate in many STEM-related competitions (*chemistry, physics and mathematics*) and won several awards. As part of my STEM education, I also produced two research papers at the [Jožef Stefan Institute](#) on the topic of rare-earth magnets.

Outside of my academic work, I was very active in the school's debate community, eventually qualifying for the national debate team representing Slovenia at the *European and World Championships* in 2001 and 2002, respectively. In my fourth year, I also joined the school's *Theater Sports* troupe.

I graduated with 28 points, qualifying in the top 5% nationally.

University

I studied *Biochemistry* at *University of Ljubljana*, making it through the 3rd year before deciding to drop out. During this time, I was already working full-time on several software development-related projects which made me reconsider devoting any more time to furthering my studies. It still remains one of the most interesting topics personally, but has since fallen out of favour as my primary career choice.