

Mark Safronov

Fullstack Web Developer

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Education

2024-2025 **Masters**, *Universitat Rovira i Virgili*, Tarragona
Ingeniería de la Seguridad Informática e Inteligencia Artificial

2006-2011 **Specialist — with honors**, *Kazan State University*, Naberezhnye Chelny
Applied Mathematics and IT

On LLMs (the “AI”) I both used *and studied* neural networks. I am actively using all the hype — ChatGPT, Grok, DeepSeek, Gemini, Qwen, you name it — since around 2023, *and* I literally built neural networks in the course of both my academic degrees. Am able to use these tools as a leverage, I know their limitations and can teach others how to use them efficiently.

Projects

2022.05–now **Full-stack Web Developer**, *Large entertainment SaaS provider*, Remote
Daily maintenance of a large microservice-oriented web application with event-sourced backend and realtime UI on the frontend. Paying the tech debt, adding support for the new clients with specific platform requirements, adding new features to the product. Extensive work with an unorthodox Web application tech stack:

- gRPC/Protobuf definitions
- streaming APIs
- event sourcing+projections
- distributed locks
- streaming databases (e.g. RethinkDB)

Learned the essentials of distributed software management under Kubernetes, including the management tools (kubectI, k9s, Lens), observability solutions (e.g. Grafana) and custom-made logging systems.

- 2018.10–now **Full-stack Web Developer**, *Educational company*, Remote
 Improved collection and set up reporting of user analytics for an educational video streaming website with 80 000 visits per month. A lot of PostgreSQL-optimized queries and a convenience UI for reporting.
 Set up transparent cookie-based authentication between the frontend and the API backend when the frontend has been migrated from React-based SPA to Next.js.
 Implemented the fulltext search in Elasticsearch. Then later reimplemented it fully natively in PostgreSQL. Tech stack:
 ○ Backend: Node.js/Express, PostgreSQL, Redis, Elasticsearch.
 ○ Frontend: Next.js/React.js/Redux/Sagas, Google Analytics API.
 Everything is Dockerized.
- 2018.04– **Software Developer**, *Cleverttech*, Remote
- 2018.10 Developed a thick client desktop application to manage and record end-to-end tests using the custom client-supplied C# testing wrapper library over Selenium.
 Tech stack:
 ○ Backend: MS SQL database.
 ○ Middleware: custom C# wrapper library, Selenium.
 ○ Frontend: React.js/Electron.
- 2012– **PHP Developer**, *Cleverttech*, Remote
- 2018.03 Maintenance of the website for the large US-based home decor retailer.
 Set up financial and user analytics reporting.
 Set up the system for mass mail sending in a scale of 500 000 recipients twice a day.
 Tech stack:
 ○ Frontend: jQuery/Spine.js partway migrated to React.js.
 ○ Backend: PHP 7.1/Yii 1.x, Composer, nginx, MariaDB (MySQL) + MongoDB, Redis, Apache Solr, Server-Side Rendering for React.js.
 ○ Tooling: Jenkins CI, PHPUnit, Selenium.
- 2016.12– **PHP Developer**, *Freelance work*, Remote
- 2017.04 Created a Web application for managing workflow of smartphone warranty repairs, for a Moscow-based client. Tech stack:
 ○ Frontend: jQuery / Twitter Bootstrap, mostly autogenerated by Yii framework.
 ○ Backend: PHP 7.1/Yii 2.x, Composer, nginx, MariaDB (MySQL).
- 2015 **Wayback Machine for Firefox**, *Open source*, Remote
 Created a tiny specialized extension for Firefox to solve my personal problem and published it in Firefox Extensions store.
- 2015 **Russian edition of “Web Application Development using Yii 2”**, *DMK Press*
 Translated my book to Russian.
- 2014 **Book “Web Application Development using Yii 2”**, *PACKT Publishing*
 Wrote a book about using Yii 2 framework, while this framework was still in beta. It still sells!
- 2012–2014 **YiiBooster maintainer**, *Cleverttech*, Remote
 Was one of the core maintainers of the opensource project YiiBooster (<https://github.com/cleverttech/YiiBooster>), which was a UI helper library for the Yii PHP framework version 1.x.

- 2012 **PHP Developer**, *Akalita*, Remote
While building yet another 1C-Bitrix based customer website, built custom online calculator for insurance payments, translated from rules from several insurance companies expressed in Excel.
- 2010–2012 **PHP Developer**, *Provodnik.Net*, Remote
Launched several e-commerce websites for different customer businesses.
Tech stack:
○ Frontend: jQuery, mostly autogenerated by Yii framework.
○ Backend: PHP 5.1/Yii 1.x, MySQL.
- 2012 **PHP Developer**, *Akalita*, Remote
Built a full-featured online retail store of personal protective gear, from PSD mock-ups up to working website, using Bitrix CMS in a single month, alone.
Tech stack: PHP 5.1, 1C-Bitrix, MySQL, Apache.
- 2010–2011 **Frontend Web Developer**, *Akalita*, Remote
Provided XHTML/CSS2 markup for close to dozen different e-commerce websites, based on PSD mock-up designs.
Maintained existing and newly appearing websites, in 1C-Bitrix CMS.
- 2009–2010 **Drop-in System Administrator**, *“Firma LIST” LLC*, Naberezhnye Chelny
Web site support, tech support, backups.
- 2008 **Russian translation of the “Visual Prolog 7.1 for Tyros”**
Translated very interesting introductory book about Visual Prolog programming language to Russian, because I could.
- 2008 **IT Manager**, *Zakamye region CCI*, Naberezhnye Chelny
LAN support, web-site support