

Paul Makovich

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Blog: <https://mkvch.pgs.sh/>

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ABOUT ME

Seasoned Software Engineer (generalist) with deep, hands-on expertise across systems and web development throughout the full SDLC. I build reliable, high-performance software with Rust, Bash, C#, JavaScript, and any other language of choice, delivering end-to-end solutions that scale from low-level systems to user-facing applications. I solve hard technical problems and ship production-ready systems; I design and maintain tooling, perform Linux administration, manage networking and virtualization, and have a passion for embedded systems.

OPEN SOURCE PROJECTS

kp >>>

Cross-platform TUI password manager implemented in Rust.

kdbx4 >>>

KeePass KDBX4 file format reading library in Rust.

inliners >>>

Cross-platform CLI tool that inline images, CSS, JavaScript and more into a single HTML web page.

bkp >>>

Configuration management helper for Alpine Linux lbu that lets commit every config update to the Git.

alp >>>

Fancy QEMU wrapper for Alpine Linux that lets you spin a virtual machine in few seconds.

Multi host Docker w/ WireGuard >>>

Overlay network without any centralized store or coordinator.

Micro containers on Musl based Mono >>>

POC example of how to build Docker image from scratch for dotnet web application.

Set of HTTP/2 ready Docker images >>>

Alpine Linux, S6-Overlay, ingress via nginx, Let's Encrypt.

EDUCATION

Belarusian State University of Informatics and Radioelectronics

2003 ... 2006

B.Sc. in Software Engineering

Thesis: Database requests caching with Enterprise JavaBeans.

The Minsk State Higher Radio Technical College

1999 ... 2003

B.Tech. in Design and production of radio electronics

Thesis: Sound card based standard audio frequency signals generator.

WORKING EXPERIENCE SELECTED POSITIONS

Self-employed

Jan 2018 ... Present

Summary Small to medium projects mostly in Rust, C#, JavaScript. Tools, websites, one-off ideas.

Athlinks

Jan 2015 ... Jan 2017

Summary Integrating two platforms (Athlinks and Chronotrack): aligning their domain models with Domain-Driven Design (DDD) principles.
Set up Continuous Integration pipeline for .NET and JavaScript apps, defining team branching model.
Migrating from "JS as an extension of server-side generated HTML" to "JS as a first class citizen SPA".
Shared accounts of two platforms by utilizing invitations model.
Email notifications subsystem.
Sitemap generation tool for millions of URLs to be indexed by search engines.

Job Position Software Engineer

Technologies Full .Net and JavaScript stacks (ASP.NET MVC, WebAPI, ReactJS, HTML5), Microsoft SQL Server, MongoDB, Neo4j, RabbitMQ, Windows Services, Jenkins, Octopus Deploy

Altoros

beg. 2014 ... end. 2014

Summary Company's internal SharePoint projects (reporting, data analysis with SQL).
In-house caching proxy for weather forecast providers for Sensio AS (asp.net web api, mobile html5).
Company's intranet site for salary payments displaying (asp.net mvc, sql compact, active directory, twitter bootstrap, handsontable).
Software estimation on presales activities.

Job Position Software Engineer

Freelance

Apr 2013 ... Sep 2013

Project *Optoviq.ru*

Summary Showcase SPA of Sadovod shopping mall.

Job Position Software Developer

Team 3

Technologies ASP.NET Web API, AngularJS, EF5, MS SQL Server 2012

Intetics, Co

beg. 2012 ... end. 2012

Project *Accelify*

Summary Set of education management tools designed for maximizing Medicaid reimbursements.

Job Position Software Maintenance Engineer

Team 10

Technologies ASP.NET WebForms, NHibernate, MS SQL Server

RealStock

mid. 2007 ... end. 2008

Summary UI design and coding Quoch Lite—user friendly stock monitor app (.NET 2.0, GDI+, WinApi).
Web-app for managing insurance contracts (project coordinator, JavaScript developer).
Adobe Flex based social network prototype (project coordinator).

Minsk Tractor Works

2007

Summary Internal projects maintenance and development.

Technologies Visual FoxPro, ODBC, SQL, OLE components