# Paul Makovich

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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 nghttpx and 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 means

Thesis: Sound card based standard audio frequency signals generator.

### WORKING EXPERIENCE / SELECTED POSITIONS /

## Self-employed

January, 2018 ... Present

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

#### **Athlinks**

January, 2015 ... January, 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 "IS as an extension of server-side generated HTML" to "IS 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**

May, 2014 ... July, 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

April, 2013 ... September, 2013

Project Optovig.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

June, 2012 ... September, 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

May, 2007 ... October, 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

February, 2007 ... July, 2007

Summary Internal projects maintenance and development.

Technologies Visual FoxPro, ODBC, SQL, OLE components.