



Artyom Afanasov



January 3, 1999



ArtyomAfanasov



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@patoshca

Languages

Russian

English

Work Experience

04.2021 –
now

.NET Software Engineer

Belkasoft, Russia

Added the functionality “WhatsApp backup acquisition and decryption for the Android platform” to the Belkasoft X project (not all competing digital expertise companies have this functionality). My other duties:

- Software products infrastructure. Migrating projects from .net Framework to .net5/.net6.
- Implementation of new backend functionality. For example, export and import eDiscovery Concordance Load File to the internal design of the "Belkasoft X" product. Export of artifact filters from the "Belkasoft X" product. Data acquisition from backups of popular applications. Import National Software Reference Library Reference Dataset Version 3 (a set of hash files for digital forensics) format to Belkasoft X. Exporting artifacts from "Belkasoft X" to Relativity Short Message Format.
- Reverse engineering, research. For example, data deduplication Volume Shadow Copy (ntfs file system recovery tool), a concrete example is Windows system restore points. WhatsApp data acquisition when doing the bachelor graduation project (sniffing, decompiling, modification). Structure of the eDiscovery container (Concordance Load File).
- Participation in the creation of new company projects – Belkasoft Triage.
- Careful attention to the company's product during development, thanks to which I identify related bugs not found by testers.
- Code refactoring.
- Fixing bugs in UI and backend.
- Code review.

Projects are related to eDiscovery, data acquisition and analysis from various devices and applications.

C# C++ WPF MVVM reverse engineering DI sniffing
Scrum

09.2019 –
12.2019

Junior .NET Developer

KORUS Consulting CIS, Russia

Worked with Electronic Data Interchange (EDI) on the main company project Esphere Courier, backend code maintenance, adding new functionality, refactoring web services.

C# REST API TDD Dependency Injection TypeScript

Internships

07.2019 –
08.2019

.NET Developer (Intern)

KORUS Consulting CIS, Russia

Project for working with electronic signatures

Added functionality to enhance an electronic signature to an internal company project.

C# C library marshalling TDD


Service Integration

Improved the interaction of a company project with the Jivosite API by adding processing of requests and responses from Jivosite API.

C# reflection Dependency Injection MassTransit

Education

Skills

 .NET

▶ C#

▶ MStest

▶ TPL

▶ DI


▶ Reflection

▶ WPF


▶ Exception Handling

▶ CodeStyle

▶ F#

 VCS

▶ git, TortoiseGit, GitLab, GitHub


 Databases

▶ MsSQL, ORM


▶ SQLite

▶ Amazon RDS


▶ Microsoft Azure SQL Databases

 CI/CD

▶ TeamCity, Docker


 Software Design

▶ UML-diagrams

 Reverse engineering


▶ Sniffing

▶ Wireshark, Fiddler, Burp Suite


 Assembler

▶ Intel x86

▶ DSP C66x


 Linux

▶ bash tools, VM administration

 Jupyter-notebook


▶ python

▶ pretty result via Markdown

 Cloud computing


▶ AWS


▶ Microsoft Azure


 Information Security

▶ exploit tools, bash

▶ virtual machine, network

 Java

 TypeScript

 Jira

Study

2021 – now	Re-qualification	Yandex School of Data Analysis, Russia
	Leave of absence	
2021 – now	Master's degree	ITMO University, Russia
	Software Engineering	
2017 – 2021	Bachelor's degree	Saint Petersburg University, Russia
	Software and Administration of Information Systems	
	Department of Software Engineering	
	Diploma with distinction	
2006 – 2017	Secondary education	Gymnasium named after A. Green of the city of Kirov, Russia
	Graduated with distinction	

Education

Online courses





Functional programming via Haskell	Computer Science Center, Russia
Main concepts of functional programming and Haskell.	
Introduction to Linux	Bioinformatics Institute, Russia
Basic concepts of Linux.	

Forums & Schools





12.04.2021 – 16.04.2021	Math and AI forum	Moscow Institute of Physics and Technology, Russia
	A 5-day intensive forum filled with lectures and hands-on activities on artificial intelligence	
06.2018	SPBU Summer School	Saint Petersburg University, Russia
	Programming a neurointerface for computer control	



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Projects

09.2020 –
05.2021

Graduation work. "WhatsApp backup acquisition and decryption for the Android platform"

Closed source project. Clickable words with a link to the work description: Supervisor review, Text, Presentation.

09.2019 –
05.2020

Term paper. Implementing Asymmetric Marker processing on the C66x DSP

AMP (10.17587/prin.9.156-162) implementation on a specialized DSP C66x processor for communication with ARM. I have studied the architecture of the system on a chip `EVMK2H`, interaction with SoC through `Code Composer Studio`, the architecture of `C66x DSP` processor and `assembly language DSP`. And then I have implemented the layers of the AMP model in assembly language DSP. And my assembly language implementation turned out to be 1.7 times faster than the C implementation with the `-O3` optimization.

02.2019 –
05.2019

Term paper. CI/CD pipeline configuration for a microservice architecture web application

During my term paper on the configuration of the `CI/CD` pipeline for the microservice architecture web application (my role in the project was DevOps) I have automated the entire pipeline (from committing to GitHub to running a microservice in the virtual machine): commit, testing, building a docker-image, pushing the docker-image to DockerHub, connecting to a VM and creating a container. In this work I have used:

- `Linux VM machines` `AWS` and `Microsoft Azure` for hosting and database services
- `TeamCity` for pipeline configuration
- `Docker` for flexible delivery.

09.2018 –
12.2018

Term paper. Small multiplayer game

A computer game that supports multiplayer. And as a developer, I do not need to set up a game server. Each player can be a server, thanks to `Photon Unity Networking`, therefore people can play anytime. `DiffMerge` was used to prevent merge conflicts. `Unity` was a game editor.

06.2018

SPBU summer project. Neurointerface for computer control

I have received data of electronic activity of the brain (P300 wave) using the `EMOTIV EPOC neurointerface` and `SDK for neurointerface` for `C#`.