Artyom Afanasov

January 3, 1999
ArtyomAfanasov
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@patoshca

Languages

Russian ●●●●●
English ●●●○○

Work Experience

03.2021 – 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 acquisiton from backups of popular applications.
- 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

Artyom Afanasov

Skills

- .NET ●●●●
  - C#
    - MSTest
    - TPL
    - DI
    - Reflection
    - WPF
    - Exception Handling
    - CodeStyle
  - F#
- VCS ●●●○
  - git, TortoiseGit, GitLub, 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 ●●●○

About Me

♥ IT, volleyball, calisthenic, piano, guitar

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 virual 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#`.