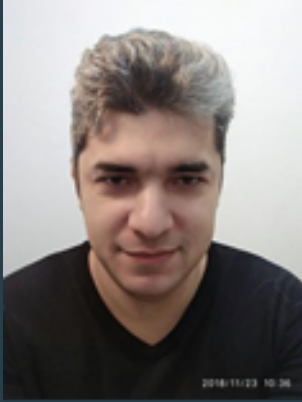


## Contact

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Tel: +381 63 771 49 75



# Alexander Galilov

Software developer/Contractor

Niš, Centralna Srbija, Serbia

## Summary

Main skills: Java Core/JNI, Android, C#, C++, Python

Youtube: <https://www.youtube.com/c/agalilov>

GitHub: <https://github.com/galilov/>

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## Experience

XIM, Inc.

Senior Software Development Engineer (contractor)

May 2021 - Present (1 year 6 months)

Nicoleta s.r.o.

TV presenter

May 2020 - February 2021 (10 months)

Slovakia

Collecting media resources, translating science articles, compilation all the materials into a news reports. Presenting science news in Youtube.

Micro Focus Software, Inc.

Independent Contractor / Senior software developer

September 2016 - October 2020 (4 years 2 months)

Newbury, Berkshire

- Took part in design and development of multi-factor authentication systems, implemented the support of SAML, OAuth 2.0, OpenID Connect.

- Used the following libraries and technologies:

OpenSAML (java), PyOIDC, pysaml2, lxml (python).

- Designed and implemented mobile applications and Authentication Mobile SDK for Android & iOS.

I used the following libraries and technologies: java/rx, room database, sqlite (android). Swift, OpenSSL, CoreData (iOS).

- Designed and developed Mobile Authentication SDK for NetIQ Advanced Authentication Platform (NAAF) in

Mono / Xamarin for iOS and Android. Used the following libraries and technologies: Mono, Xamarin, C#, Embeddinator-4000.

- For iOS and Android apps I also used push notifications, QR code recognition, crypto-algorithms implemented in OS-level and in OpenSSL library (RSA, AES, SHA, HMACSHA1), keychain/keystore protected by PIN and biometric authentication.
- The mobile solution uses regionally spreaded proxy servers to guarantee the delivery of authentication requests into customer's infrastructure.
- My code passed the Fortify Static Code Analyzer checks without any security issues had been detected.
- Designed and implemented Pebble Smart Watch support for both of iOS & Android apps via BLE and ported HMAC-SHA1 to Pebble FreeRTOS firmware.
- Developed Python scripts as part of the backend of Advanced Authentication server, as well as to automate the assembly and testing processes. Used: Python 3.x, Pyramid framework, ReactJS, RabbitMQ, Redis, PostgreSQL, Docker. etc.

<https://www.microfocus.com/en-us/products/netiqadvanced-authentication/overview>

- Implemented portions of code in C++ and Managed C++/CLI as parts of our server-side products (version 4.x was targeted for Windows only).
- Also designed the architecture and diagrams for all the interactions between mobile and server sides.
- Negotiations with customers regarding utilization the Mobile Authentication SDK in their projects.

## GeekBrains

### Java "Level 3" Teacher

January 2019 - May 2019 (5 months)

Moscow, Russian Federation

## Webinars

## OTUS Online education center

### Java Teacher

January 2019 - March 2019 (3 months)

Moscow, Russian Federation

### Authasas

Independent Contractor / Senior software developer

August 2012 - September 2016 (4 years 2 months)

Software development. Starting from 2016 Ausasas became a part of MicroFocus, Inc

Developed ASP.Net extensions for Multi factor authentication system. Also developed mobile authenticators (mobile apps) in PhoneGap.

### Promosend, Ltd

Software Developer

2009 - 2011 (2 years)

Astrakhan, Russia

Developed a bulk mailing system. Used C++ for core part and Perl for web ui part. The system worked in a multinode mode.

### Inter CARD

Software Developer

October 2005 - November 2009 (4 years 2 months)

Astrakhan, Russia

Developed frontend and backend software for payment terminals (kiosks) in C#.Net. Developed hardware support for Bill acceptors, Coin Acceptors, Bill printers.

### Agent Plus

Software Developer

2003 - 2005 (2 years)

Astrakhan, Russia

Accounting system development in Embedded C++ for PocketPC. Used C++, ActiveX. I developed a printing renderer for orders, invoices, and other documents. Documents were defined in Lua language and processed inside a Pocket PC mobile device.

### Astrakhan-Page, Ltd

Chief of IT departament

2001 - 2003 (2 years)

Astrakhan. Russia

PBX System administration, Network administration, telephone billing system development.

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## Education

Astrakhan State Technical University (ASTU)

computer science · (1994 - 2000)