

# Vladimir Pavlovskii

Senior Software Engineer

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## Hi

I am a software engineer with over 20 years of experience in a wide variety of industries, including telecommunications, economic intelligence, fintech and game development. Now I specialize in distributed computing, microservice development, API development and data warehousing. I also had the opportunity to lead teams, mentor junior engineers and play an active role in talent acquisition.

My personal goal is to further develop my skills in functional programming and machine learning, as well as to explore new areas such as quantum computing and cosmology.

In addition to my passion for software development, I am also a dog person. My faithful companion Gauss, named after the famous mathematician, always keeps me company during working marathons and makes me smile with his cheerful behavior.

## ABOUT

I graduated from the faculty of Applied Mathematics and Informatics in 2009. In parallel I began to work as a web developer. Moreover I had an opportunity to work both on backend and frontend in C#, Javascript and ActionScript.

In 2010 I was hired by a game developing studio called GameGarden. At first I was working on creating game clients, but one day I started to develop Java backends as well.

After 3 and half years I moved to a company called MegaLabs where I was working on a backend for a music store and developed an intermediate tarification server for pay-by-click mobile payment system.

Then I decided to change the field and became a backend developer in finance. I started to work in a company called Platbox using Java to support in-house billing

systems and several other services. At the same time I got interested in the functional paradigm and started to learn Java functional features and Scala.

Next I moved to a company which provides online service for corporate economic security checking. I worked there on data processors and graph representation of companies.

And at the moment I have finished my work at Twilio and open to new job opportunities.

## EXPERIENCE

### Senior Software Engineer

**Twilio** (<https://twilio.com>)

February 2019 – March 2023

I was a member of Identity team at Twilio. The Identity team is responsible for developing and maintaining Twilio's identity and access management (IAM) solutions, ensuring that Twilio customers can securely and efficiently manage their Twilio resources.

As a senior software engineer, I was responsible for solving problems related to architecture, security and other aspects of software development. I've used technologies, such as Java, Scala, Python, Dropwizard, various AWS services and many more. I was involved in onboarding new team members and training juniors.

Aside from my usual activities related to the implementation of Twilio business needs, I have spent a lot of effort on reinforcing the technology stack of my team.

For instance, I'm the author and key maintainer of WoCT, which stands for World of Cluster Tests. I came up with the idea for the library and developed its initial version during a week of the Twilio hackathon (also known as Tweek). I've continued to maintain it, and over time more people have joined the development team.

With WoCT a developer can declare a test case by specifying the required assets, such as users, accounts, organizations, etc., and their properties and relationships. The library takes care of generating these assets, talking with numerous APIs, persisting all the related entities and gracefully handling data replication lags. After executing the test body, it then cleans up all the created entities, either by soft or hard deleting them.

Overall, I am proud to have developed WoCT and to see how it has become an essential tool for the Identity team and beyond. It has greatly streamlined our development process and allowed us to focus more on other important aspects of our work.

## Senior Software Engineer / Data Engineer

**National Credit Bureau** (<https://creditnet.ru>)

December 2016 – January 2019 (2 years 4 months)

- data processors and tools development
- ETL activities and data analysis
- data warehouse design (PostgreSQL, MongoDB)
- performance optimizations
- API development
- refactoring, code-review

## Senior Software Engineer / Team Lead

**PlatBox** (<https://platbox.com>)

July 2015 – December 2016 (1 year 6 months)

- responsible for Java/Scala backend development of an in-house billing, statistics and antifraud platforms
- implemented continuous integration and monitoring for an entrusted platforms
- high-load server architecture development
- data warehouse design (PostgreSQL, MongoDB, Redis)
- server and server infra profiling
- refactoring, code-review
- requirements gathering, analysis, setting objectives
- juniors coaching
- coordinating a 5-man team
- interviews

## Software Engineer

**MegaLabs** (<https://megalabs.ru>)

February 2014 – June 2015 (1 year 5 months)

- implement new functionality and perform bugfixes for an in-house platform for on-line multimedia market [zg.megafon.ru](http://zg.megafon.ru)
- development of intermediate tarification server for pay-by-click mobile payment system
- data warehouse design (PostgreSQL, MongoDB, Redis)

## Lead Software Engineer

**Game Garden** (<http://game-garden.ru>)

June 2010 – November 2013 (3 years 6 months)

- high-load server architecture development— data warehouse design (MongoDB, MySQL)
- server and server infra profiling
- coordinating a 3-man team
- websocket-based implementations of rooms for simultaneous playing
- applied algorithms for statistical task solving
- game logic server-side programming
- client-server transport development
- social network game client architecture design
- API design and implementation

## Software Engineer

**RIA Novosti** (<https://ria.ru>)

December 2009 – June 2010 (7 months)

- participated in development of director's version of MultiScreen
- developed DVR-broadcasting support for RIAN website video players
- deployed dynamic stream switching for RIAN website video players
- developed AdRiver plugin for RIAN website video players
- support and refactoring of existing RIAN video players
- created auxiliary plugins for development and testing of new functionality for RIAN website video players
- developed Adobe Flash projects batch compilation and test server deployment environment with JSFL
- deployed video player testing system

## Software Engineer

**Freelance**

October 2009 – December 2009 (3 months)

- developed websites backends in C#
- data warehouse design (MySQL, MS SQL)
- promotional websites HTML markup
- developed Adobe Flash applications

## Software Engineer

**Manufaktura Agency** (<http://manufaktura.ru>)

October 2006 – October 2009 (3 years 1 month)

- developed websites backends in C#
- data warehouse design (MySQL, MS SQL)
- promotional websites HTML markup

- developed Adobe Flash applications
- tech writing

## Software Engineer

### Freelance

November 2005 – September 2006 (11 months)

- developed websites backends in C#
- data warehouse design (MySQL, MS SQL)
- promotional websites HTML markup
- developed Adobe Flash applications

## Software Engineer

**Nuclear Safety Institute of the Russian Academy of Sciences** (<http://ibrae.ac.ru>)

April 2002 – October 2005 (3 years 7 months)

- participated in development of client-server applications for radiology data monitoring
- created presentations in Adobe Flash for offsite projects (ecological modeling division)
- tech support for institute website

## COURSES

### Functional Program Design in Scala

May 2019 – Present

<https://www.coursera.org/account/accomplishments/verify/Q4WNUPX4SMEA>

### Functional Programming Principles in Scala

April 2019 – Present

<https://www.coursera.org/account/accomplishments/verify/82P8BXJ8M4EJ>

### Deep Learning Specialization

March 2018 – Present

<https://www.coursera.org/account/accomplishments/specialization/74YPY9ZLCVQ5>

## Sequence Models

March 2018 – Present

<https://www.coursera.org/account/accomplishments/verify/TLD9WKGK3RPL7>

## Convolutional Neural Networks

January 2018 – present

<https://www.coursera.org/account/accomplishments/verify/5LFBKW35527M>

## Structuring Machine Learning Projects

December 2017 – present

<https://www.coursera.org/account/accomplishments/verify/4GEM4NJ2UMQY>

## Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization

December 2017 – present

<https://www.coursera.org/account/accomplishments/verify/35Q6NG5ZW28W>

## Neural Networks and Deep Learning

September 2017 – present

<https://www.coursera.org/account/accomplishments/verify/KLV7PPUTYF92>

## Machine Learning

March 2016 – present

<https://www.coursera.org/account/accomplishments/verify/34SHS5SGTZLY>

## Linear Algebra by HSE

April 2015 – present

<https://www.coursera.org/account/accomplishments/verify/YV3LKT3JHD>

## EDUCATION

2001 – 2009 Moscow Power Engineering Institute (Technical University)

Bachelor's Degree, applied mathematics and informatics

1999 – 2001 Lyceum 1502 attached to the Moscow Power Engineering Institute