

Kostiantyn Denysiuk	
Java, Software Architecture & Design	
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Stack:

- Certified Professional for Software Architecture – Foundation Level
- Languages: Java, Python, C/C++, UML, HTML, XML
- Frameworks: Java Spring (Core, JPA, Hibernate, REST, MVC, Security)
- Assembly systems: Make, CMake, Ant, Maven
- Operating Systems: Linux/Windows
- Source control systems: Git
- Data storage systems: MySQL, SQLite, Redis, MongoDB
- Event-streaming platforms: Apache Kafka
- Distributed synchronization services: Apache Zookeeper
- Devops: basics of Kubernetes, Docker, AWS, Jenkins
- Methodologies, approaches, principles: Lean, Agile, SCRUM, Kanban, TDD, SOLID
- Additional: Thymeleaf, Postman, Confluence, Octane
- Extensive experience in conducting complex negotiations

English: C1

Luxoft (DXC) 2021 – now

Java Software Developer

Java, Spring, JSP

Static Code Analysis for vulnerabilities, security and stability. Adding new functionality to SCA according to new Java improvements, development and implementation new rules and features, maintenance and bug fixing, versioning.

- enhancing SCA functionality due to languages and frameworks evolution (for instance, implementing innovations of Java 21)
- bug fixing in SCA translator and analyzer, fixing false positive/negative issues
- creating new rules according to new vulnerabilities
- testing (creating separate branches for testbed, launching and analyzing test results)
- covering more or less improvement/enhancement/fixes with corresponding tests
- working with huge log files (logs could exceed hundreds of gigabytes)

- versioning (increasing version of SCA from Java 8 to Java 11 and 17)
- accompanying transition from Ant to Maven
- creating transformers for specific frameworks. For instance, to create taint propagation graph in Spring, it was necessary to understand which objects would be created during runtime and generate them from source code, imitating runtime processes
- customer support and issuing fixes for different versions of the SCA, including outdated releases

CEO/CTO at Agrus LLC

2004 – 2021

- Technical lead/project manager of Agrus.ua
- Architecting and administrating of company's IT infrastructure, which eventually was moved to Hetzner cloud
- Managing creating process of the cross-platform data interchange between Agrus.ua <-> 1C <->crm Bitrix24 (using JSON)
- creating helper tools to transform data from one format into another to relieve work with prices and commercial proposals

Post-Graduate Study

Software Developer at Environmental Modelling Department in the Institute of Math Machines and System Problems

2000 – 2004

C/C++, C#, Visual Fortran and .NET Framework for programming, UML and Rational Rose for Engineering and Design

- creating math wash-off model of radionuclide from banks by Pripyat' river and wrote corresponding code
- Created flood modelling and decision support systems for flooded regions
- Took part in the flood-modeling customization process of the Mike11 Denmark model in Transcarpathian territory in the framework of Denmark project. It included work with GIS, land surface and rivers crosssections digitalization, neural networks, collect and digitalize huge amount of data from meteo telemetric stations, etc.
- solving complex systems of partial differential equations using long arithmetics to avoid precision losses. The specific module was written using String approaches.
- visualization of the spread of pollution after man-made disasters across the territory

Taras Shevchenko National University

1997 – 2002

Faculty of Cybernetics, Department of the Computational Math

Details

Luxoft (DXC)

I've been working for Luxoft (DXC) since 2021. Direct employer was Microfocus Fortify, which was bought and taken over by OpenText. My team was an extension of the employer team and we were developing, maintaining and improving Static Code Analyzer. The main goals were to recognize different kinds of vulnerabilities in a source code and suggested ways how to get rid of them.

The continuous evolution of languages, libraries, frameworks and configurations requires continuous adjustments and enhancements of SCA according to the conditions have been changed. I was dealing with different kinds of improvements in new versions of Java and expanding SCA functionality to understand and analyze them, fixing False Positive and False Negative issues, fixing internal and external wrong findings. The project was closed for the whole team on the 31 of July 2024 by the employer.

It was an extremely interesting huge backend project mainly consists of algorithms, data structures, parsers, multithreading and concurrency, memory optimization, which covered more than thirty different programming languages, popular frameworks, various integrations, project builders and much more.

Agrus

I was working for Agrus company for a long time as CEO, ideologist, creative, organizer and manager for about 17 years. I've managed IT-department, account department, sales and development department, transport and logistic department and production, with total team in about 50 people. All the time I was implementing a variety of different methods for the best business evolution and development. The most important achievements, as I think, were:

- Creation of highly space-distributed IT infrastructure and automation of the business processes
- Implementation and customization of accountant system 1C enterprise
- Implementation of bar-code scan system in company's shops, which highly reduced the time of service for customers and went the sales up more than four times
- Implementation and customization crm Bitrix24
- Worked as team lead and project manager in the process of developing site agrus.ua
- Created the cross-platform data interchange between Agrus.ua <-> 1C <-> Bitrix
- Built the social media marketing processes with results:

****Facebook**** – more than 100k subscriptions**

<https://www.facebook.com/Agrus.ua>

****Instagram**** – more than 19k subscriptions

https://www.instagram.com/agrus_ua/

- Built a security and video surveillance system in shops, garden centers and plant nursery
- Created smart heating systems and automation watering systems, connected it to the server software for monitoring purposes
- Negotiations with top managers and buyers of large retail chains: Metro Cash & Carry, Auchan, Leroy Merlin, Billa, EpicentrK, etc., organization and management of cooperation.

University and post-graduate study

I've always preferred logical and math tasks. I had been learning at special school with math and physics lean in 1997, before I graduated at the Faculty of Cybernetics, at the Department of Computational Mathematics.

There were interesting tasks like pattern recognition or computer modeling of the drastic environmental processes.

During that time I received a part-time job at Institute of Math Machines and System Problems in the environmental modeling department, where I was working more than four years. There were solved such tasks as:

- Built math wash-off model of radionuclide from banks by Prip'yat' river and wrote corresponding code
- Created flood modelling and decision support systems. Took part in the flood-modeling customization process of the Mike11 Denmark model in Transcarpathian territory in the framework of Denmark project. It included work with GIS, land surface and rivers cross-sections digitalization, neural networks, collect and digitalize huge amount of data from meteorological stations, etc.

I used C/C++, C#, Visual FORTRAN and .NET Framework for programming, UML and Rational Rose for Engineering and Design.

Since 2021 I finished courses below:

Python: <https://www.udemy.com/certificate/UC-6c49d23a-6c54-44b9-b4cf-462886e9ad83/>

Java: <https://www.udemy.com/certificate/UC-4f5e57fd-2cd1-4e02-ac09-eaec54ae3d5b/>

JSP, Servlets and JDBC: <https://www.udemy.com/certificate/UC-ce4d0f38-7c82-49f9-8e71-acb3d1aa864a/>

TDD: <https://www.udemy.com/certificate/UC-09fbafce-b1c9-4a09-8e57-dfecb4f56dea/>

Git & GitHub: <https://www.udemy.com/certificate/UC-0d7fb8d2-6704-46a1-aedc-09965e514a38/>

SOLID principles: <https://www.udemy.com/certificate/UC-9465e52f-fed2-4560-8989-f438297ad568/>

Clean Code: <https://www.udemy.com/certificate/UC-95db21d2-ef37-477f-85f8-d8ed6833137e/>

English IELTS Vocabulary: <https://www.udemy.com/certificate/UC-7bfba05e-1e01-4a03-b4d9-a2b767433cdf/>

Advanced English Vocabulary:
<https://www.udemy.com/certificate/UC-0c35311c-9f97-4e43-8f99-68764ba76517/>

The Complete Microservices & Event-Driven Architecture:
<https://www.udemy.com/certificate/UC-64ad5713-424c-4d4d-928c-9443b46b0a44/>

Java Multithreading Concurrency and Performance Optimization:
<https://www.udemy.com/certificate/UC-727d66b2-de6c-4716-832c-abb1fa719c9d/>

Advanced Java Topics: Java Reflection:
<https://www.udemy.com/certificate/UC-76584d8a-034b-4d16-9788-cee047c0f366/>

Software Architecture and Design of Modern Large Scale Systems:
<https://www.udemy.com/certificate/UC-7ed6933e-1850-45a1-9db9-29711494ee56/>

Software Architecture and System Design Practical Case Studies:
<https://www.udemy.com/certificate/UC-dd816763-9daa-49ab-b1f9-f508d23e06f2/>

Software Architecture Training for iSAQB CPSA-F:
<https://topdeveloperacademy.com/certified-professional-for-software-architecture-foundational-level-training-cpsa-f>

Software Architecture and Design Certification
<https://www.certible.com/verify/98992446152039af959e09e9e3c30482/>
<https://www.certible.com/badge/8f97957f-3bd9-406b-b82c-e5fb4340ead9/>

Distributed Systems and Cloud Computing with Java
<https://www.udemy.com/certificate/UC-a0e86c79-d2a8-472a-8ed0->

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Luxoft internal trainings:

- JVA-017 Effective Java (30 hours) Luxoft training centre
- General English Course Non-Native Speaker May 2022
- General English Course Native Speaker September 2022
- Understanding Unconscious Bias
- Respectful and Constructive Communications
- Other regular mandatory security trainings