Ivan Victorovich Usalko

Place of work: BIA Technologies

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Образование

1992 – 1997	Samara University	Physicist.
	Bachelor	Physics teacher.
	General and theoretical physics	
	Diploma: "Continual integral on the Lobachevsky plane and dynamics of two-particle systems"	

Работа

1998 – 2000	NPK Rhythm	Software Developer (Delphi, SQL)
2000 – 2001	Apteka-Holding	IT Specialist (Network, 1S)
2001 – 2002	InterCare	IT Specialist (Network, 1S, Oracle)
2002 – 2007	Pharmaceutical warehouse	Software Developer (1S, CBuilder)
2007 – 2014 2017 – 2019	Magenta Technology	Software Developer (Java, GWT, SQL, C++, IBM MQ, Kafka, Oracle)
2015 – 2017	Resolution-Point	Software Developer (Java, Spring, SQL, Cassandra, Elasticsearch, Ember JS, Apache MQ, Camel)
2019 – 2021	iTransition	Software Developer (Python, C#, SQL, Elasticsearch, Tensorflow-Lite, Java, Kafka, Spring)
2021 – 2023	European University in St. Petersburg	Backend engineer (Python, SQL, Pandas, Flask, Django, FastAPI, Elasticsearch, GraphQL)
2023 – 2024	BIA Technologies	Senior programmer

Technology proficiency

Python , Node JS, C#, AWS CloudFormation, AWS SQS, AWS SMS, AWS EC2, Java, MySQL, T-SQL, PostgreSQL, Elasticsearch, Liquibase, Postgres, Tensorflow, Django, Oracle, Wildfly, Kubernets, Camel, SSAS, Tomcat, Elide, Cassandra, Liquibase, ActiveMQ, Android, PHP, C++, Dart, CMake, Shell, Docker, Flask

Software development

Personnel management, Banking sector, Government activities (statistics), Logistics and transport enterprise management, Healthcare, Natural language processing.

Conferences and seminars

Report *The potential of an ethnobotanical database in the field of regional ethnolinguistic projects (based on the material of the Tambov region)* at the XIV International Scientific Conference "Slavic World: Spiritual Traditions and Literature." Tambov, TSU named after. G.R. Derzhavin, Tambov Theological Seminary of the Tambov Diocese of the Russian Orthodox Church, May 22-23, 2023 (co-authors: Kovalenko K.I., Makhracheva T.V.)

Report *PhytoLex and field linguistics: common ground* at the 5th seminar of the Society of Field Linguistics, Vologda (Language Convergence Laboratory, HSE), April 7-10, 2023 (https://opling.github.io/seminar5/) (co-authors: Kovalenko K.I., Kolosova V.B.)

Report *Data Representation for Social Data Science and Humanities With Django and Wikibase: The PhytoLex Database Case* (https://www.youtube.com/watch?v=WsH9UyJlzeg). The 32nd Conference of Open Innovations Association FRUCT, Tampere, Finland 9-11 November 2022 (программа: https://www.fruct.org/conferences/FRUCT32_Program.pdf) (co-authors: Bibilov I., Kovalenko K., Tushkanova O., Amatuni Yu.)

Report *Databases in the humanities: new opportunities (using the example of PhytoLex)* at the 4th seminar of the Society of Field Linguists, village. Simanikha, Novgorod region, September 30 - October 3, 2022 (program: https://opling.github.io/fourth_seminar/) (co-authors: Kovalenko K., Bibilov I.).

Publications

Data Representation for Social Data Science and Humanities with Django and Wikibase: the PhytoLex Database Case. In: S. Balandin, E. Kucheryavy and T. Shatalova (eds.), Proceedings of the 32nd Conference of Open Innovations Association FRUCT, Tampere, Finland. Volume 32, p. 321-327. ISSN 2305-7254, FRUCT Oy, e-ISSN 2343-0737 (https://www.fruct.org/publications/volume-32/acm32/files/Ama.pdf) (соавторы: Amatuni J., Bibilov I., Kovalenko K., Tushkanova O.)

Projects

1. Project for Sberbank on logistics of cash in transit (2019)

2. FarmSee Project (innovating the agricultural industry using machine vision techniques to track animal weight gain) (2021)

3.Development of the ethnobotanical database PhytoLex within the framework of the project "Plants and people in the Russian Empire of the 18th century: class distribution of knowledge and practices" https://phytolex.eusp.org/ (2021-2023)

4. Project "Convenient Shift" (a program for quickly searching and hiring low- and medium-skilled employees for short periods) https://ems.biacorp.ru (2023)

Scientific interests

Преобразование данных, представление данных, DH (цифровые гуманитарные науки), обработка естественного языка (NLP), анализ данных, статистические модели, машинное обучение, цифровые лингвистические атласы

Foreign languages

English – B2

Hebrew – A1

Latin – A1