

# Aleksandr V. Katenin

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[k4t3n1n082021.netlify.app](https://k4t3n1n082021.netlify.app) (New)  
GitHub: <https://github.com/killeralex/cveng/>

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**KEYWORDS:** Aerospace and Defense, Astra Linux, Automated Process Control System (APCS), Automation of Petroleum Product Transportation, BI Engineer, Business Intelligence (BI), C#, Delphi, DevOps Engineer, GitLab, IBM MQ, Information Technology, Help Desk, Jenkins, Jira Software, Jira Service Desk, MATLAB, Mathematical Methods in Navigation, Open Platform Communications (OPC), Operational and Commercial Accounting of Petroleum Products, ORA, Petroleum Product Transportation Operations, PhD, R&D, SmartGit, Software Engineer, Systems Analysis, Systems Analyst, TestComplete, Test Engineer, QA, Qt

## Education

<b>Bauman Moscow State Technical University</b> FN-12 Mathematical Modelling, no diploma Relevant coursework: C#, MATLAB	(Feb. 2013 – Jun. 2015) Moscow
<b>Military University of the Ministry of Defense of the Russian Federation</b> College of Foreign Languages Faculty of Retraining and Continuing Education Relevant coursework: Translation studies (English)	2010 Moscow
<b>Military Academy of the Ministry of Defense of the Russian Federation</b> Faculty of the Diplomatic Service Regional geography (Japan, USA)	(Sep. 2005 – Jul. 2007) Moscow
<b>PhD</b> , 27.05.2004 г. (KT №143946 25.03.2005)	2004
<b>Foreign Information Center of the Ministry of Defense of the Russian Federation</b> Postgraduate military course Regional geography (USA)	(Sep. 1998 – Jun. 2003) Moscow
<b>Military Aerospace Engineering Academy named after A.F. Mozhayskiy</b> Mathematical support for the functioning of automated control systems (Engineering mathematic) Math Engineer with honors (ABC № 0007247) CGPA: 4.98/5.0 Relevant coursework: Vector quantization of images for special purposes	(Sep. 1992 – 06.1997) Saint Petersburg
<b>Physics and Mathematics Gymnasium № 30</b> A № 430571 CGPA: 4.6/5.0	(Sep. 1990 – 06.1992) Saint Petersburg

## Work & Research

<b>Work experience (23 years – 1992-1997-2019-2013): R&amp;D, Teaching (Mathematical methods in navigation, Chair Professor), Software Engineer, Test Engineer, DevOps Engineer, Help Desk Engineer, BI Engineer, Systems Analyst – SoftDev, DevOps, Help Desk, BI</b> <b>SPIN 6877-5169, ORCID 0000-0001-9363-4886, h = 2 (06.12.2018)</b>	
Leading researcher/development leader <b>IGLS LLC/UKV</b> Personal contribution: 1 IT projects development plan was created 2 a Technical Assignment for the website of the IT department of the management company was developed 3 the following architectural solutions in stock and initiative projects of IGLS LLC are proposed – architecture and patentable solutions for remote control and monitoring of <b>a network of IoT devices</b>	(Jul. 2020) Saint Petersburg

<ul style="list-style-type: none"> <li>– development program for <b>situational centers</b> of the manufacturer and the customer</li> <li>– <b>training and certification program</b> for the customer, dealer and manufacturer personnel</li> </ul>	
<p>Senior Process Engineer DevOps Group, <b>InfTeh Ltd</b> Automation of petroleum product transportation <b>Responsibility:</b> <u>DevOps Engineer</u> (PIPELINE: Jira Software, GitLab, Jenkins, QA), <u>Technical Support Engineer</u> (Automated accounting system of petroleum, Jira Service Desk), <u>DB Administrator</u> (ORA), <u>Enterprise Applications Administrator</u> (IBM MQ, OPC), <u>BI Engineer and Systems Analyst</u> (loading oil products in car tanks, operational and commercial accounting of petroleum products, petroleum product transportation operations, two hour operational data), <u>SoftDev Engineer</u> (Delphi, SmartGit), <u>Test Engineer</u> (TestComplete)</p>	(March 2018 – Nov. 2019) Moscow
<p>Senior Analyst Department of Management Information Systems, <b>InfTeh Ltd</b> Automation of petroleum product transportation, Projects and predesign activities, analysis of customer requirements for expanding the functionality of information systems, requirements for development, testing, documentation and implementation of information systems</p>	(Feb. 2018 – March 2018) Moscow
<p>Senior Researcher R&amp;D Department № 3, Research Institute (Military-System Logistics Research of the Armed Forces of the Russian Federation), <b>Military Academy of Logistics</b> R&amp;D (GOST RV), SoftDev Engineer (RAD Delphi, MVS C#/C++), combat simulation, automated logistics management system, automated construction of a graphical plan for operational and supply rail transport</p>	(Nov. 2017 – Feb. 2018) Saint Petersburg
<p>Leading Researcher Scientific and Technical Center № 2, <b>Research Institute of Communication and Control Systems</b> R&amp;D (GOST RV), SoftDev Engineer (RAD Qt, Astra Linux), combat simulation (operational and tactical level R&amp;D projects), Automated Communication Management System</p>	(Apr. 2016 – Oct. 2017) Moscow
<p>Deputy General Director for Science (CEO (R)) <b>Research and Testing Center of the Rocket and Space Industry</b> R&amp;D</p>	(Oct. 2013 – Sep. 2015) Peresvet
<p>Editor <b>Military Industrial Courier (VPK) Weekly, Publishing House VPK-Media</b></p>	(Nov. 2011 – Sep. 2013) Moscow
<p>Associate Professor Department of Navigation, <b>MSAWT</b> Mathematical methods in navigation</p>	(Sep. 2016 – Aug. 2018) Moscow
<p>Head of department Department of Navigation, <b>MSAWT</b></p>	(Sep. 2015 – Sep. 2016) Moscow
<p>Associate Professor Department of Navigation, <b>MSAWT</b> Application of the theory of random processes in navigation</p>	(Sep. 2008 – Sep. 2015) Moscow
<p>Head of R&amp;D Department Assistant <b>Technical Information Center of the Ministry of Defense of the Russian Federation</b> R&amp;D, cataloging, UAV</p>	(Jul. 2007 – Dec. 2015) Moscow
<p>Student <b>Military Academy of the Ministry of Defense of the Russian Federation</b> Regional geography (Japan, USA)</p>	(Sep. 2005 – Jul. 2007) Moscow
<p>Head of R&amp;D department Assistant <b>Technical Information Center of the Ministry of Defense of the Russian Federation</b> Information systems design</p>	(2004 – Sep. 2005) Moscow
<p>Senior Engineer <b>Technical Information Center of the Ministry of Defense of the Russian Federation</b> Scientific and technical support R&amp;D projects</p>	(2000 – 2004) Moscow
<p>Adjunct (Student) <b>Foreign Information Center of the Ministry of Defense of the Russian Federation</b> Postgraduate military course Regional geography (USA)</p>	(Sep. 1998 – Jul. 2003) Moscow
<p>Engineer <b>Technical Information Center of the Ministry of Defense of the Russian Federation</b> SoftDev (RAD Delphi), DBA (Informix, Paradox), Microsoft Office Full</p>	(Jun. 1997 – 2000) Moscow

Skills	
<b>Computer:</b> MATLAB, LaTeX, Microsoft Office, C#, Delphi, ORACLE <b>Analytical:</b> R&D (GOST RV), Automation of petroleum product transportation <b>Languages:</b> Russian (Native Speaker), English B1, Japanese (Level 4 of the Japanese-Language Proficiency Test, 02.02.2008, № 4A221642, 07*7270101-40001), Português A2	
Publications & Patents	
59 publications, including 6 pubs (5 computer programs and 1 utility model) in Federal Institute of Industrial Property (FIPS, ROSAPO) and 6 patents, Hirsch Index 2 (06.12.2018)	
Interests	
Math modeling, combat simulation, SoftDev and gamification (Delphi, C#, etc), DevOps (K8s in perspective), doctoral dissertation «Methodology for the rational design of tactical modeling systems for the Navy» in progress, applications of the Net-centric warfare (NCW) theory for the armed forces	
Perspective	
1 Software development in Java/Scala/Kt and ELK (*nix) stacks 2 Do without a frontend programmer In the ELK stack due to the built-in database 3 Solution of choice: AWS/AWS IoT	
Awards	
Annual competition Award 2007 «Research work in the field of navigational support for military operations of the Navy» <b>The State Research Navigation-Hydrographic Institute (GNINGI) of the Ministry of Defense of the Russian Federation</b> Blockhouse project, Order of the Head of GNINGI № 100, 06.05.2008	2008
Medal «For the best scientific student work-1997» <b>Ministry of General and Professional Education of the Russian Federation</b> Open competition for the best scientific work of students in natural, technical and human sciences in universities of the Russian Federation, 27.12.1997	1997
Teaching Experience	
<b>Moscow State Academy of Water Transport (MSAWT)</b>	<b>Moscow</b>
Associate Professor, Department of Navigation Mathematical methods in navigation to about 90 students	(Sep. 2016 – Aug. 2018)
Head of department, Department of Navigation	(Sep. 2015 – Sep. 2016)
Associate Professor, Department of Navigation Application of the theory of random processes in navigation to about 60 students	(Sep. 2008 – Sep. 2015)
Personal	
<b>Date of birth:</b> 04 September 1975. Russian Federation <b>Objective:</b> Information Technology, Automated Process Control System, Automation of Petroleum Product Transportation <b>Relocation Preferences:</b> Moscow, Saint Petersburg, Helsinki, Barcelona <b>Schedule:</b> flexible schedule; full day; shift work; distant work <b>Misc:</b> Category B Driving License. Business trips are possible. <b>Geographic Mobility:</b> Permanent Relocation/Temporary Assignment – Finland, Spain, Germany, Czechoslovakia, USA, Russia (Moscow, Saint Petersburg) <b>Competencies:</b> APCS (Automation of Petroleum Product Transportation), Automated Command and Control Systems (C4R), combat simulation, decision support system, mathematical methods in navigation, R&D <b>Technology stack:</b> DevOps Engineer (PIPELINE: Jira Software, GitLab, Jenkins, QA); Technical Support Engineer (Automated accounting system of petroleum, Jira Service Desk), DB Administrator (ORA), Enterprise Applications Administrator (IBM MQ, OPC), BI Engineer and Systems Analyst (loading oil products in car tanks, operational and commercial accounting of petroleum products, petroleum product transportation operations, two hour operational data), SoftDev Engineer (Delphi, SmartGit), Test Engineer (TestComplete)	
Meetups & Certificates	
Master class «Why Scala 3 is the best language», Computer Training Center «Specialist» at Bauman MSTU, 10.01.2022	<b>Moscow</b> Jan. 2022
<b>CCNA Network Security</b> , Specialis, 04.12.2021 – 25.12.2021	<b>Moscow</b> Dec. 2021
<b>CCNA 7.0 Introduction to Networks &amp; Switching, Routing, and Wireless Essentials</b> , Specialist, 12.09.2021 – 28.11.2021	<b>Moscow</b> Nov. 2021
Seminar «An example of using the Web Storage API», Specialist, 26.08.2021	<b>Moscow</b> Aug. 2021
<b>Portuguese</b> , A 2.1, Centro de língua e cultura portuguesas, 04.10.2021–20.12.2021	<b>Moscow</b> Dec. 2021
<b>Portuguese</b> , A 1.2, Centro de língua e cultura portuguesas, 25.05.2021–06.08.2021	<b>Moscow</b> Aug. 2021
<b>Portuguese</b> , A 1.1, Centro de língua e cultura portuguesas, 02.02.2021–16.04.2021	<b>Moscow</b> Apr. 2021

Intensive training programme «Java for Beginners», GeekBrains, № 0711049, 25.01.2020	<b>Moscow Jan. 2020</b>
Intensive training programme «Python for Beginners», GeekBrains, № 0710616, 24.01.2020	<b>Moscow Jan. 2020</b>
Intensive training programme «Basics of programming», GeekBrains, № 0710472, 24.01.2020	<b>Moscow Jan. 2020</b>
Intensive training programme «Swift for Beginners», GeekBrains, № 0709789, 22.01.2020	<b>Moscow Jan. 2020</b>
Intensive training programme «C# for Beginners», GeekBrains, № 0709763, 22.01.2020	<b>Moscow Jan. 2020</b>
Intensive training programme «Web Development for Beginners», GeekBrains, № 0708439, 20.01.2020	<b>Moscow Jan. 2020</b>
Intensive training programme «Web Design Basics», GeekBrains, № 0708265, 19.01.2020	<b>Moscow Jan. 2020</b>
The Dawn of a New Error with Phil Nash (guest), JetBrains, 21.01.2020	<b>S.Ptrsb. Jan. 2020</b>
SpbDotNet № 56 (guest), JetBrains, 16.01.2020	<b>S.Ptrsb. Jan. 2020</b>

## References

Interim Head of the Technical Information Center Maj.-Gen. Doctor of Technical Sciences, Professor G. Kuzmin	<p>«Katenin A.V. is a highly qualified specialist in the field of systems analysis and he has good language skills, however, he agrees to be fired for organizational activities and has expressed a desire to receive additional education at the Military University of the Ministry of Defense of the Russian Federation.</p> <p>In 2003 he successfully completed the postgraduate military course of the Foreign Information Center of the Ministry of Defense of the Russian Federation. Area of interests – USA.</p> <p>In 2005 – 2007 he studied at the faculty of the diplomatic service of the Military Academy of the Ministry of Defense of the Russian Federation, expelled. The country of specialization is Japan. He speaks English and Japanese (English is a two-year program without a certificate, Japanese is a JLPT4 certificate). He has 2 state registration certificates for computer program (FIPS)».</p>	18.01.2010
CEO Publishing House VPKMedia Z. Gurieva	<p>«Fully meets the requirements for specialists in information and analytical activities.</p> <p>Knowledge of weapons and military equipment, high efficiency, responsibility, ability to work in a team».</p>	14.10.2013



















## Additional references are available upon request

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<b>Network</b>	Network engineer	<b>CCNA</b>	★	★	★	☆	☆
	SDN/NVF	<b>elementary</b>	★	☆	☆	☆	☆
	S-Mesh	<b>elementary</b>	★	☆	☆	☆	☆
	Cloud	<b>elementary</b>	★	☆	☆	☆	☆
	Virt	<b>elementary</b>	★	☆	☆	☆	☆
	Cont (K8, Dockers)	<b>elementary</b>	★	☆	☆	☆	☆
<b>OpenSource</b>		<b>elementary</b>	★	☆	☆	☆	☆
<b>DB</b>	SQL (ORA, PSQL)	<b>average</b>	★	★	★	☆	☆
	NoSQL	<b>elementary</b>	★	☆	☆	☆	☆
<b>Brockers (MQ)</b>	True MQ, Kafka, Redis	<b>elementary</b>	★	☆	☆	☆	☆
<b>Programming languages</b>	C	<b>average</b>	★	★	★	☆	☆
	C++	<b>average</b>	★	★	★	☆	☆
	C#	<b>average</b>	★	★	★	☆	☆
	Go	<b>elementary</b>	★	☆	☆	☆	☆
	Java	<b>elementary</b>	★	☆	☆	☆	☆
	Object Pascal (Delphi)	<b>average</b>	★	★	★	☆	☆
<b>Web</b>	REST, gRPC	<b>elementary</b>	★	☆	☆	☆	☆
	HTML5, CSS	<b>elementary</b>	★	☆	☆	☆	☆
	JS, TS	<b>elementary</b>	★	☆	☆	☆	☆
	Angular	<b>elementary</b>	★	☆	☆	☆	☆
	React	<b>elementary</b>	★	☆	☆	☆	☆
<b>SA</b>	19, 34, GOST RV	<b>high</b>	★	★	★	★	☆
<b>CI/CD</b>	Git	<b>elementary</b>	★	★	☆	☆	☆
	Jenkins	<b>elementary</b>	★	☆	☆	☆	☆
<b>QA</b>	Jira	<b>average</b>	★	★	★	☆	☆
<b>Languages</b>	RUS Native	<b>GOD</b>	★	★	★	★	★
	ENG B1	<b>average</b>	★	★	★	☆	☆
	JP JLPT4 (2008)	<b>elementary</b>	★	☆	☆	☆	☆
	Pt A2 (2021)	<b>average</b>	★	★	★	☆	☆

# VI PROSPECTIVE DEVELOPER STACK (ENGINEER STACK – AWS/AWS IOT, OpenShift)

## Java

ARCH	MServ/API REST+JSON/gRPC OS	 Swagger Supported by SMARTBEAR	
FRONT		 	
MIDDLE Lang/APP/DB			
			
			
BACK			
IDE/CI/CD			
SERVLESS	VM/Container	 	Cloud/Scale

## Kt

OS	WIN		
ARCH	1 2 Клиент-сервер	 Swagger Supported by SMARTBEAR	
		1 API Plotly.kt 2 – 	
HTTP	2 tcpserversocket (SRV) 		
ETL	Kotlin-Jupyter		
FRONT		 	Kotlin-react
			Styled components
MIDDLE		WildFly Kotlin-JVM	 
	 Gradle Kotlin DSL	 Kotlin-JS	
	 by Pivotal	 Kotlin-native	
			
BACK	 Ktor		
IDE/CI/CD	 Jupyter Notebook		
SERVLESS VM/Container AWS Cloud/Scale	VM/Container	 	Cloud/Scale
METRICS			
BI, VISUAL	 Plotly.kt	MetaVisor-3D	
TEST	