






Iskander Sitdikov

A researcher, mathematician, and software engineer

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Education

2013–2015	Ph. D. degree (unfinished) , CMC MSU ¹ , Moscow, Russia												
	<table><tr><td>affiliation</td><td>Laboratory of Mathematical Methods of Image Processing</td></tr><tr><td>supervisor</td><td>Prof. Andrey S. Krylov</td></tr></table>	affiliation	Laboratory of Mathematical Methods of Image Processing	supervisor	Prof. Andrey S. Krylov								
affiliation	Laboratory of Mathematical Methods of Image Processing												
supervisor	Prof. Andrey S. Krylov												
2008–2013	Specialist (M. S.) degree , CMC MSU ¹ , Moscow, Russia												
	<table><tr><td>field of study</td><td>applied mathematics and computer science</td></tr><tr><td>specialization</td><td>mathematical physics</td></tr><tr><td>affiliation</td><td>Laboratory of Mathematical Methods of Image Processing</td></tr><tr><td>supervisor</td><td>Prof. Andrey S. Krylov</td></tr><tr><td>GPA</td><td>5.0 of 5</td></tr><tr><td>thesis</td><td>Development of combined image enhancement methods</td></tr></table>	field of study	applied mathematics and computer science	specialization	mathematical physics	affiliation	Laboratory of Mathematical Methods of Image Processing	supervisor	Prof. Andrey S. Krylov	GPA	5.0 of 5	thesis	Development of combined image enhancement methods
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affiliation	Laboratory of Mathematical Methods of Image Processing												
supervisor	Prof. Andrey S. Krylov												
GPA	5.0 of 5												
thesis	Development of combined image enhancement methods												
1998–2008	Secondary general education , Gymnasium №26, Naberezhnye Chelny, Russia												
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Skills

programming languages	Golang, Python, TypeScript, Java, C/C++, Bash, SQL, Matlab, Factor
cloud infrastructure	AWS, Kubernetes, Docker, Helm, ArgoCD, HashiCorp Vault
data processing	Apache Kafka, Apache Spark, Apache Hadoop/Hive, Grafana, Prometheus
databases	Amazon DocumentDB, Amazon Keyspaces, PostgreSQL, Redis, RediSearch, Clickhouse, MongoDB, YDB, Apache Cassandra, Apache HBase
libraries	React, Effector, NumPy, SciPy, CUDA, OpenGL
tools	Visual Studio Code, Git, GitHub Actions, GitHub Copilot, Vim, IntelliJ IDEA
operating systems	macOS (over 8 years), Fedora (over 1 years), Debian (over 15 years)





Spoken Languages

English	Proficient (C2)
Russian	Native

Work Experience

since 07/2021	Zerion Responsible for the infrastructure of DeFi portfolio tracking platform zerion.io . <ul style="list-style-type: none">Designing and maintaining real-time blockchain data processing pipelines for various ecosystems (Ethereum, Solana)Developing internal (gRPC) and public (REST) high-load API servicesImplementing integrations with major DeFi protocolsLeading development of Zerion DNA and Zerion Rewards projectsCreated a shared Golang library and established best practices and development guidelines for the team <table><tr><td>location</td><td>remotely</td></tr><tr><td>position</td><td>tech lead</td></tr></table>	location	remotely	position	tech lead		
location	remotely						
position	tech lead						
10/2018–06/2021	Joom Responsible for the recommendation engine for e-commerce platform joom.com . <ul style="list-style-type: none">Designed and implemented data processing pipelines for marketplace analytics and user behavior analysisImproved recommendation feed quality through machine learning algorithms and A/B testing frameworksMaintained high-load web services for real-time recommendations serving millions of usersLed infrastructure migration from AWS EC2 to Docker and Kubernetes for improved scalabilityContributed to Joom Ads auction mechanics development for the merchant advertising platform <table><tr><td>location</td><td>Moscow, Russia</td></tr><tr><td>position</td><td>senior machine learning engineer</td></tr></table>	location	Moscow, Russia	position	senior machine learning engineer		
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position	senior machine learning engineer						
05/2015–09/2018	Yandex Responsible for the recommendation engine for e-commerce platform market.yandex.ru . <ul style="list-style-type: none">Built comprehensive offline data processing systems for marketplace transaction and user behavior dataDesigned historical user data collection system for personalized recommendations and analyticsDeveloped and maintained A/B testing framework for recommendation algorithm evaluationLed migration from Hive to YDB for improved data processing performance and reliability <table><tr><td>location</td><td>Moscow, Russia</td></tr><tr><td>position</td><td>machine learning engineer</td></tr></table>	location	Moscow, Russia	position	machine learning engineer		
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10/2014–12/2014	Samsung Responsible for image super-resolution project implementation. <ul style="list-style-type: none">Worked on various motion estimation algorithms for video enhancement <table><tr><td>location</td><td>Moscow, Russia</td></tr><tr><td>position</td><td>software engineer</td></tr></table>	location	Moscow, Russia	position	software engineer		
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position	software engineer						
07/2014–08/2014	Space Research Institute Responsible for satellite auroral imaging research. <ul style="list-style-type: none">Developed efficient numerical methods for large-scale ground and atmospheric scattering compensationPrototyped algorithms in Matlab and implemented production versions in Python <table><tr><td>location</td><td>Moscow, Russia</td></tr><tr><td>position</td><td>research intern</td></tr></table>	location	Moscow, Russia	position	research intern		
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07/2011–09/2011	ADSC²						
01/2012–02/2012	Responsible for computer vision and GPU computing research projects.						
07/2012–10/2012	<ul style="list-style-type: none">Implemented real-time stereo matching algorithms optimized for GPU architectureDeveloped Kinect depth map enhancement algorithms using GPU parallel processingResearched edge-aware recursive image filtering techniques for real-time applications <table><tr><td>location</td><td>Singapore</td></tr><tr><td>position</td><td>junior research assistant</td></tr><tr><td>supervisors</td><td>Dr. Dongbo Min, Dr. Kyle Rupnow</td></tr></table>	location	Singapore	position	junior research assistant	supervisors	Dr. Dongbo Min, Dr. Kyle Rupnow
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position	junior research assistant						
supervisors	Dr. Dongbo Min, Dr. Kyle Rupnow						

References

	Alex Bashlykov CTO & co-founder at Zerion.	inbox@zerion.io
	Prof. Andrey S. Krylov Head of Laboratory of Mathematical Methods of Image Processing at CMC MSU ¹ .	kryl@cs.msu.ru
	Dr. Dongbo Min Former research scientist at ADSC ² .	dongbo@adsc.com.sg
	Dr. Kyle Rupnow Former research scientist at ADSC ² .	k.rupnow@adsc.com.sg

Publications

- [1] T. Saluev and I. Sitdikov. “Generic properties and a criterion of an operator norm”. In: *Linear Algebra and Its Applications* 485 (2015), pp. 1–20.
- [2] I. Sitdikov and A. S. Krylov. “Variational image deringing using varying regularization parameter”. In: *Pattern Recognition and Image Analysis* 25.1 (2015), pp. 96–100.
- [3] I. Sitdikov and A. S. Krylov. “Locally adaptive image deringing”. In: *11th International Conference “Pattern Recognition and Image Analysis: New Information Technologies”*. Vol. 1. Samara, Russia, 2013, pp. 322–325.
- [4] И. Ситди́ков и др. «Параллельная реализация алгоритмов вычисления областей для анализа эффекта ложного оконтуривания на изображениях». В: *Труды 15-й международной конференции «Цифровая обработка сигналов и её применение»*. Т. 2. Москва, 2013, с. 55—58.

¹ Faculty of Computational Mathematics and Cybernetics of Lomonosov Moscow State University

² Advanced Digital Sciences Center (Singapore)