

Sergey Gritsyuk



E-mail: s.gritsyuk@gmail.com

Date of birth: 17th of July 1985

Residence: Dubai, UAE

Experienced professional in computer science, adept in diverse domains including distributed applications, data engineering and analysis, big data, artificial intelligence, web, and mobile applications. Purposeful, responsible, organized, result oriented and very enthusiastic about innovations and cutting-edge technologies. Holds a PhD in decision analysis and artificial intelligence.

EXPERIENCE

ESL FACEIT Group, Cologne, Germany / efg.gg

february 2021 – march 2024

Championed and directed a team of software engineers to develop a cutting-edge distributed e-sports tournament system for a leading global organizer of esports video game competitions. In 2022 company was bought by Saudi Arabia's Savvy Gaming Group for \$1 bln.

Scala, Cats, Finagle, Doobie, Thrift, PostgreSQL, TypeScript, React.js, Pants

Independent Consultant (remote / fixed term contracts)

october 2014 – october 2022

- o **Fabuza**, Moscow, Russia / **Senso**, Singapore

february 2021 – april 2022

Conducted comprehensive research and prototyped artificial intelligence algorithms for interface usability and user behavior analysis. Research results formed the basis of a new AI-driven version of the Senso / Fabuza UI analysis platform.

Python, Pandas, NumPy

- o **Kiwi ICT**, Auckland, New Zealand

august 2021 – october 2021

Built general data processing software platform architecture for Honduras elections proposal.

- o **Decerns**, Obninsk, Russia / decerns.com

october 2014 – october 2022

Provided expert guidance on core architecture and decision analysis methodologies for the DecernsMCDA software. Currently, the software is used in tackling real-world challenges such as risk management and environmental

protection. Also it used as an educational tool in numerous prestigious universities worldwide, including Harvard School of Public Health, University of British Columbia, Auckland University, etc.

- Department of Information and Service Economy, Aalto university, School of Business, Helsinki, Finland (remote / fixed term contract) / aalto.fi

may 2012 – march 2020

post doc researcher, software architect, big data engineer

- o **Kontoor** startup / service for financial news analysis

january 2016 – march 2020

Engineered the MVP and established the foundational architecture for a financial news analysis startup, facilitating the successful closure of a seed investment round from Tekes fund. Project utilize power of big data technologies and cutting-edge deep learning models to extract valuable commercial information from business news.

Scala, Spark, Kafka, Akka, Finagle, Slick, HBase, Apache Solr, Cloudera platform, Play framework, React.js

- o **Metsaan** study / forest management model and service

may 2019 – august 2019

Designed a distributed architecture and implemented a prototype of artificial intelligence model for forest management. By modeling the forest growth process, the system enables predictions to maximize profitability across forest areas in Finland.

Scala, AMPL

- o **Cargill** study / prediction model for corn market

december 2018

Developed a prototype of corn market prediction model (return, interest, etc.) for American global food corporation Cargill.

Python, Pandas, NumPy, XGBoost

- Institute of Cyber Intelligence Systems, National Research Nuclear University MEPhI (INPE), Moscow/Obninsk, Russia / mephi.ru

september 2012 – july 2023

associate professor

Authored and delivered the "NoSQL Databases" course for bachelor students and the advanced "Big Data" course for master students. Additionally, provided expert guidance as an advisor for student research projects.

Scala, Apache Spark, MongoDB

- CodingAndroid.com – software development studio specializing in high-quality mobile applications

september 2008 – february 2015

Co-founded CodingAndroid studio and actively contributed to its management and the development of Android projects. Partnered with Sony Ericsson to create a store application, pre-installed on all Sony Ericsson Android phones sold in Russia, enabling users to download and purchase applications, music, and games. Our own project Beetaun was recognized as one of the Top 50 world finalists in the Google Android Developer Challenge I in 2008.

Android SDK, LibGDX, PHP, CodeIgniter, Symfony, MySQL

- IT laboratory at Obninsk Institute for Nuclear Power Engineering – National Research Nuclear University «MEPHI»

february 2006 – may 2018

chief, software architect, lead developer

- o **DECERNS** / spatial decision support system - international scientific project (ISTC №3549, Russian Federal Program №14.740.11.0360)

october 2006 – october 2014

Architected and spearheaded the development of the decision support module and the core decision analysis library for the spatial decision support system Decerns, <http://decerns.com/>.

Java, JSP, Servlet, JSF, Applet, Swing, Java2D, jSimpleCharts, jSimpleViz

- o **d2m2** / toolkit for dredging material management, USA

february 2011 – february 2012

Spearheaded the development of the decision analysis module within a toolkit designed for dredging material management in the USA.

Java, Swing, jSimpleCharts, jSimpleViz

- o Graphical libraries **jSimpleCharts** and **jSimpleViz** / as a part of DECERNS project

october 2006 – october 2009

Architected and lead development of graphic Java libraries for charts and interactive interface components.

Java, Java2D

- o Miscellaneous projects for university operation

february 2006 – may 2018

Directed developers and maintained the software infrastructure of a university encompassing approximately 500 workstations. Oversaw operations of the university website and various web-based services such as phone directory, different integrations, etc.

PHP, Drupal, Laravel, Apache, PostgreSQL, MySQL, MS SQL Server, CentOS, Ubuntu, FreeBSD

EDUCATION

- National Research Nuclear University «MEPHI», Moscow, Russia
Postgraduate course in the field of «System analysis, control and data processing» 2007 – 2010

PhD in decision analysis and artificial intelligence, december 2011

Thesis: «Methods of multi-criteria acceptability analysis and hybrid methods of artificial intelligence in rehabilitation of technologically-radioactively contaminated areas» (in Russian)

- Nonproliferation program by Open World leadership center: Seattle-Richland-Washington DC, USA

Leadership program Graduate, august 2008

- Obninsk State Technical University for Nuclear Power Engineering (INPE), Obninsk, Russia

Department of Information systems and technologies, 2002 – 2007

Engineer of Information systems and technologies (with honors), june 2007

Thesis: «Java technologies appliance to distributed educational and methodical systems development» (in Russian)

SKILLS

- Scala – Finagle, Cats, Akka, Doobie, Thrift, Play framework
- Big Data – Spark, Kafka, HBase, Apache Solr, Cloudera Platform
- Python – CCXT, Pandas, NumPy, Flask, XGBoost, Keras
- Java – JSP, Servlet, Java2D, Swing, Applet
- RDBMS – PostgreSQL, MySQL
- NoSQL – HBase, MongoDB, Redis
- Mobile – Google Android
- TypeScript – Material UI, React.js, jQuery
- PHP – Wordpress, Drupal, CodeIgniter, Laravel, CakePHP
- Collaboration – GitLab, JIRA, Git, Mercurial
- OS – MacOS, Ubuntu Linux, Redhat/CentOS Linux, Android, Windows

SCIENCE

big data, data analysis, artificial intelligence, multi-criteria decision analysis

- **Developed university courses:**
 - «NoSQL databases», bachelor program of Information systems department, National Research Nuclear University (INPE)

- o «Big Data», master program of Information systems department, National Research Nuclear University (INPE)
- **Speeches on Conferences and workshops (most important):**
 - o 27th International Summer Symposium on Science and World Affairs, Nagasaki University, Nagasaki, Japan, 2015
 - o VII-th Moscow International Conference on Operations research (ORM2013), MSU, Moscow, Russia, 2013
 - o INFORMS 2012 Annual Meeting, Phoenix, AZ, USA, 2012
 - o The 21st International Conference on Multiple Criteria Decision Making, Jyvaskyla, Finland, 2011
 - o MCDM Pre-Conference seminar, Aalto School of Economics, Helsinki, Finland, 2011
 - o Open World Nonproliferation conference, Spaso-House, Moscow, Russia, 2011
 - o International meeting on DECERNS project at the University of Portsmouth, Portsmouth, United Kingdom, 2010
 - o Sony Ericsson meeting, Moscow, Russia, 2009
 - o The 20th International Conference on Multiple Criteria Decision Making, Chengdu, China, 2009
 - o Google Developer Day, Moscow, Russia, 2008
- **Publications (most important):**
 - o Gritsyuk S., Korobov A., Radaev A., Yatsalo B. The DecernsFMCDFA fuzzy multi-criteria decision support system. *Software & Systems*. Vol. 35 (2), 2022. pp. 561–566
 - o Yatsalo B., Gritsyuk S., Mirzeabasov O., Vasilevskaya M. Uncertainty treatment within multicriteria decision analysis with the use of acceptability concept. / *Big systems management*. Moscow. v.32, 2011
 - o Gritsyuk S., Yatsalo B., Afanasev G., Pichugina I. Monitoring Network Optimization on Radioactively Contaminated Territory with the Use of Multiobjective Genetic Algorithms and Neural Nets. – *Communication of Higher Schools. Nuclear Power Engineering*. v.4, 2010. pp.91-102
 - o Gritsyuk S., Yatsalo B., Didenko V. Management of Remediation Measures on Radioactively Contaminated Territories with the use of Multiobjective Optimization. – *Communication of Higher Schools. Nuclear Power Engineering*. v.3, 2010. pp.55-65
 - o Yatsalo B., Didenko V., Tkachuk A., Gritsyuk S., Mirzeabasov O., Slipenkaya V., Babutski A., Pichugina I., Sullivan T., Linkov I. Multi-Criteria Spatial Decision Support System DECERNS: Application to Land Use Planning. - *International Journal of Information Systems and Social Change*, 1(1), 11-30, 2010
 - o *Total list includes 46 publications*