Alvis Logins

Lead Data Scientist ▪ Software Engineer ▪ PhD

Summary

I'm a research-oriented engineer with persistant imagination and reliable competence. I recieved PhD in Computer Science in 2020, major in Data Management and Machine Learning. Since then, I've worked as a team leader in Huawei RnD, developing and improving software solutions for industrial IoT, in particular robotic manipulation. Now I'm seeking for extra ambitious projects with freedom for innovation, contagious hard work tone, and opportunity to lead and inspire.

Contacts

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Current allocation: Moscow

Areas of Interest

- Discrete and Continuous Optimization
- Statistical and Predictive Analytics
- Deep Learning and Computer Vision
- Data Bases and Query Optimization
- Classic Machine Learning

Main Application Areas:

- Robotics, IoT
- Healthcare, Bioinformatics
- Social Networks

Technical Skills

Proficient expertice:

- Python, Data Science stack
- C / C++, Linux

Competent expertice:

ROS, Docker, SQL, MySQL, bash, git, pytorch, CUDA, MATLAB, php, Javascript, HTML, Angular, ngnix, Apache, Kubernetes, Scala, Lisp, Prolog

Industrial Experience

Since Jan 2021: **Research Team Lead** **Huawei Technologies Co., Ltd., Moscow**

In a team of 3 – 5 people designed a robotic system for pick & place scenario in the optic fiber product line, including robot calibration, low-level controller tuning, high-level trajectory planning, and grasping using computer vision. Applied for a patent of a novel kinematic calibration method.

Nov 2020 – Jan 2021: Senior Data Scientist – // –

Improved signal processing algorithm of fiber optic recievers, by compensating non-linear distortions in the transmission line using neural networks.

Jun – Nov 2016: Junior Data Scientist Habidatum, Moscow

Worked on regression models for russian real estate market, with an emphasis on data mining and engineering.

2010 – 2016: Freelance Full-Stack Web Developer

Headed a technical team of a fintech startup with over 5k customers for 3 years. Implemented more than 20 side projects for small companies and educational institutions.

Academic Experience and Education

2016 – 2020	Aarhus University (AU) Aarhus, Denmark	PhD. Researched discrete optimization and data mining techniques in large graphs, e.g. social networks and road networks. Supervisor: Panagiotis Karras.
2014 – 2016	Skolkovo Institute of Science and Technology Moscow, Russia	MSc. Major in Data Science. Double-degree with MIPT. Worked on spatial data indexing techniques in databases.
Fall 2015	Massachusetts Institute of Technology (MIT) Boston, USA	A part of Skoltech MSc programme. Studied Software Engineering and Optimization, Distributed Algorithms, Statistics.
2010 – 2016	Moscow Institute of Physics and Technology Moscow, Russia	BSc. Department of General and Applied Physics. Major in Bioinformatics. Worked on simulations of protein folding.
2007 – 2010	Zolitudes Gymnasium Riga, Latvia	Member of the latvian national team of the International Physics Olympiad (IPhO 2010)

Selected Publications

I. Gukov, A. Logins, "Real-time Multi-Objective Trajectory Optimization", IEEE International Conference on Robotic Computing (IRC), 2022

A. Logins, Jiale He, K. Paramonov, "Block-Structured Deep Learning-Based OFDM Channel Equalization", IEEE Communications Letters, 2021, pp. 321 - 324

A. Logins, Y. Li, P. Karras, "On the Robustness of Cascade Diffusion under Node Attacks", in Proceedings of the Web Conference (WWW 2020), 2020, pp. 2711–2717

A. Logins, P. Karras, C. S. Jensen, "Multicapacity Facility Selection in Networks", IEEE International Conference on Data Engineering (ICDE 2019), 2019, pp. 794–805.

A. Logins. "Resource Allocation in Networks", PhD Dissertation, Aarhus University, 2020

Internships

- Singapore Management University (Singapore, 2019)
- University of Macao (Macau, 2019)
- Aarhus University (Denmark, 2018)
- University of Ioannina (Greece, 2015)
- IMSI (Greece, 2015)
- INRIA (France, 2013)
- Intel (Moscow, 2012)