Tautvydas Misiunas
Curriculum Vitæ

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Work Experience

Current, from Oct 2014

Software development engineer
Amazon, Edinburgh, United Kingdom

Focused on the back-end work of massive scale projects. To ensure service scaling and high performance standards under heavy load, I developed a flexible testing framework. As a result, the services performed as predicted during Black Friday and Cyber Monday. I also prototyped machine learning models for content optimization on Amazon gateway, dynamical filtering of adult content and language inference based on book snippets. Customer impact of major updates was rigorously evaluated with A/B testing, allowing to iterate over ideas fast and backup analysis with numbers. For example, a new widget that I worked on proved to generate $11M worldwide.

Nov 2012 – Aug 2013

Software developer
Ocado, London, United Kingdom

Java back-end developer on MHE control team at Ocado, providing reliable real-time Java application responsible for control over sixty interconnected cranes and conveyors. Developed an optimization module which exploits idle machines to improve physical inventory distribution. The module required improved routing routine within a continuously changing warehouse. Developed an unsupervised super-graph extraction (via Markov Clustering Algorithm) based routing Algorithm.

Sep 2010 - June 2011

Research assistant
Center for Physical Sciences and Technology, Vilnius, Lithuania

Under the supervision of Prof. E. Tornau, I developed computational model to emulate the behavior of triangular-shaped molecules. We have extended existing phase models, such as Potts and Blume-Emery-Griffits, to support molecule's ability to settle down on the lattice. The model successfully explained two structures which were observed in experiments. Furthermore, the model predicted a new structure and defined under what circumstances it forms.

Current, from July 2012

Android games
Mobile app

I co-created two Android games that are free to download. Over the years I have been keeping the applications up to date with new releases and support for new Android versions. Both applications are very successful with over a million downloads.

Education

2014	Master of Science
	Distinction, 3.9 GPA
	Artificial Intelligence
	The University of Edinburgh
2008 – 2012	Bachelor degree
	Overall mark - 84%
	Physics
	Vilnius University

Projects

2014	Short term movements in stock prices
	Kaggle
2015	Amazon internal mobile hackaton
	Amazon

Publications

2012	Ordered assemblies of triangular-shaped molecules with strongly interacting vertices: phase diagrams for honeycomb and zigzag structures on triangular lattice
	The journal of physical chemistry. B

Computer Skills

Basic Knowledge	c++, bash, OpenOffice
Advanced Knowledge	java, python, LaTeX, Linux, Microsoft Windows Machine learning

Communication Skills

Conferences	Amazon Machine Learning Conference – 2015