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Eryk Warchulski

Education

2015-2019 Bachelor, Warsaw University of Technology, Faculty of Electronics and Information Technology, Warsaw - Poland, Electronics.

2019-2020 Master of science, Warsaw University of Technology, Faculty of Electronics and Information Technology, Warsaw - Poland, Computer science.

Experience

06.2018-09.2018 Data Engineer, Internship, Poland's Ministry of Finance, Warsaw.

Project focused on a social network analysis (Python, R and Neo4j graph database)

Machine Learning Engineer, Warsaw University of Technology, Warsaw.

I participate in science and research project which is focusing on the optimization of energy consumption of cooling system for external company.

Data Scientist, Polskie Technologie Sp. z o. o., PLTE, Warsaw.

I worked as a DS and a partial DevOps Engineer for fin-tech company which is focusing on fincial risk modelling.

Programming

R full Tidyverse stack, rlang, mlr/3, drake, RMarkdown, optim, caret, R6 class system

Python Numpy, Tensorflow, Keras, Spade

Haskell Stack, QuickCheck, general notion of functional programming i.e functors, applicative, monads, etc.

C System programming, Posix

C++ STL, generic programming, C++11

Elixir beginner, learning in progress!

Technologies

Database SQL, SQLite, Neo4j, Redis

Docker Docker Compose

git GitHub, GitLab and Bitbucket ecosystem i.e. Travis, GitLab CI/CD, Jira

Unix/Linux advanced as a user and system administrator

Literal Jupyter ecosystem

programming

Formal Alloy

specification

Methodoglies Scrum, Kanban

Publications

PPSN2018 "Improving the Differential Evolution Strategy by coupling it with CMA-ES", Jaroslaw Arabas, Eryk Warchulski and Dariusz Jagodzinski

ELTE2019 "Optimization of ultra-thin magnetron sputtered aluminium films", Robert Mroczynski, Jaroslaw Arabas, Eryk Warchulski

PPSN2020 "Investigation of step-size adaptation methods for CMA-ES based on population midpoint fitness"

Engineering & science intrests

Functional programming

Nonparametric regression

Optimization

Evolutionary strategies

Projects (on my GitHub!)

R Modified regression random forest from scratch – modification concerns on selecting instances from dataset using kernel density estimate.

R Tools for and analysis of unsupervised novelty detection methods.

Python Convolutional neural network from scratch.

Python Multiagent trade market simulator.

C++ Efficient generator of Barabasi-Albert random graphs.

Haskell Pyramid puzzle solver.

Languages

Polish Native

English Intermediate

fluent reading and writing, good at verbal