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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.

08.2019-01.2020 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, Shiny

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 Phoenix, ExUnit, Witchcraft, Mix

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, TDD

Web HTML, CSS, React

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