

Yury Zhuk

I'm a Data Scientist and ML Developer that helps companies advance innovative technologies

LINKS / CONTACT



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EDUCATION

UNIV. OF BRITISH COLUMBIA

BSc Statistics | Thematic
Concentration in Computer Science
April 2020 | Vancouver, BC

SKILLS

TECHNOLOGY

Languages:

Python • Scala • R • SQL • C++
Lua • Java • Assembly • L^AT_EX

Tools:

Unix • PyTorch • fast.ai • Docker
Numpy • Multiprocessing • APIs
GitHub/Bitbucket • TensorFlow
Apache (Spark, Kafka, Cassandra,
Ambari) • OrientDB • Kubernetes

LANGUAGE

English: Native Speaker

Russian: Native Speaker

German: B2 (conversational)

COURSEWORK

Intelligent Computational Systems
Machine and Statistical Learning
Time Series and Stochastic Processes
Multivariate Calculus
Applied Linear Algebra
Intermediate Algorithms
Data Structures
Computer Systems

HOBBIES

Cheese-making
Rock and roll dancing
Skiing, skating, snow shoeing
Mountain hiking

EXPERIENCE

KANTIFY | MACHINE LEARNING ENGINEER (INTERN)

May 2019 - Sept. 2019 | Vienna, Austria (Remote)

- Trained computer vision model for document analysis from scratch (10x more accurate, 100x faster than leading solutions); integrated into product
- Implemented restaurant recommender system backend and API with geographical, temporal and thematic query filters

CEREBRI AI | MACHINE LEARNING DEVELOPER

(4 months internship, 8 months full-time)

May 2017 - May 2018 | Toronto, ON

- Automated complex distributed data processing tasks, such as transforming streamed input data and training machine learning models
- Implemented Spark backend for API services to process data and store graph relationships part of an ETL pipeline
- Set up Spark Streaming applications on Azure, configured logging with Elasticsearch, Logstash, Kibana

INTERCEPT GROUP | MICROSOFT BRAND AMBASSADOR

Sept 2016 - Dec 2016 | Vancouver, BC

- Shared tips and provided technical support for Windows 10 features. Helped with feature configuration, security upkeep, bug resolution
- Organized group info sessions to market Microsoft features; expanded Microsoft's social media presence (FB, Twitter)

MILNER PHYSICS LABORATORY | VOLUNTEER LAB ASSISTANT

May 2016 - July 2016 | Vancouver, BC

- Installed and configured hardware controllers and sensors for experiments
- Designed and manufactured protective enclosure for pressure control system

PROJECTS

ANTS (MULTI-AGENT REINFORCEMENT LEARNING)

2019 (current) | github.com/Teetertater/MARLAnts

- Trained Q-learning agent policies to cooperate in groups
- Created custom OpenAI Gym environments with visualizations

LIFESIM (EVOLUTION SIMULATION IN LUA)

2019 | github.com/Teetertater/LifeSim

- Created environment to study adaptation and survival mechanisms for populations of simulated agents with constrained resources (written in Lua)

GOLD PRICE PREDICTION STUDY

2018 | github.com/Teetertater/GoldGeld

- Built LSTM prediction model in Keras with performance visualizations

MESSENGER SENTIMENT ANALYSIS

2017 | github.com/Teetertater/Messenger_NLP

- Visualized "positivity" over time in personal instant-message conversations

IoT HOME LIGHTING AUTOMATION APP

2017 | github.com/Teetertater/StrangerLights

- Built Android app and Arduino controller to automatically flip lightswitch