Dmytro Ushchapovskyy

London, E2 ♀ info@dema-u.dev ⊠

dema-u.dev 🗞

+44 7428 711987 📞

Education

Education	
 MEng Electrical & Electronic Engineering with Management Imperial College London Module focus on machine learning, mathematics, statistics, and software engineering 	Oct 2016 – Jun 2020 g.
• Self-proposed final year thesis – risk aware reinforcement learning agents for trading	- g.
A-Levels Abbey College Cambridge	Sep 2014 – Jun 2016
 Further Mathematics – A* Mathematics – A* Physical Article Arti	/sics – A*
Experience	
Quantitative Developer ClearMacro Full-time Role	May 2020 – Present
• Developed and maintained an internal distributed API for file-based storage of finance	cial time series using FastAPI
• Developed an anomaly detection framework which let clients get a sense of integrity	of the market data.
• Built serverless ETL pipelines for multiple data vendors such as Refinitiv and IHS.	
 Setup and maintained multiple PostgreSQL databases as well as containerized databases 	ases for developer testing.
 Refactored multiple parts of the codebase from F# to C# with a focus in improving fle 	exibility and structure.
Quantitative Analyst Hartree Partners Full-time Role	Apr 2019 – Oct 2019
 Built reinforcement learning algorithms for predictive asset optimization which boos: Utilised Bayesian probabilistic methods to develop an electricity spot price prediction Built forecasting models for various parts of the energy markets such as BSUoS and s In a team developed an internal Python library for common data processing tasks in t Extensively used Pandas, Numpy, Plotly, Scikit Learn, Scipy and TensorFlow for day-to Annual Trading Competition - Winner Brevan Howard Individual Competition The winner of the £10000 grand prize of trading competition organised by Brevan Ho Competed against hundreds of undergraduate and postgraduate students at Imperia Built simulations and reinforcement learning agents that exploited the seasonal natu Applied various reinforcement learning libraries such as stable-baselines and Ray RLIi Used Docker to containerise agents for marking and testing of the solutions on remo Imperial Annual AI Hack - Winners Shell Group Competition Led a team of four and competed against over a hundred students from universities Built a variational autoencoder for data generation and anomaly identification using Project managed the team, split tasks, and determined requirements for front-end tegeneration 	n model for traders. olar generation. the energy sector. o-day tasks. Jul 2019 – Oct 2019 oward. I for 3 months. re of the markets. b to speed up prototyping. te servers. Feb 2020 – Feb 2020 all over the UK. latent representations.
Tutor Fire Tech Camp Part-time Role	Dec 2018 – Jan 2019
 Teaching Python, high quality coding practices and computing skills to students of all Leading groups of children through their first complete coding projects. 	
 Blackrock Annual Algothon - Runners Up Blackrock Group Competition Third place in a 24-hour Algothon focused on alternative data for alpha and beta gen Built custom market backtests, market simulations and reinforcement learning agent 	
Other Experience	
Equipment Manager Imperial Music Tech Volunteering	Aug 2019 – Mar 2020
• Managed and maintained an £8000 sound system and other sound engineering equi	pment.
DJ and Must Producer Freelance Hobby	Oct 2017 – Present
• Self-taught DJ and music producer, performing at over 25 events in UK as well as inte	·
Production Teacher Imperial Music Tech Volunteering	Aug 2018 – Aug 2019
Planned and taught a 3 month long electronic music course to undergraduate and po	ostgraduate students.
Relevant Skills	
Technologies: Python C# F# C++ Docker FastAPI PostgreSQL MongoDB .NET	Γ ASP.NET
Cloud Computing: Azure	
Snakon Languagae: English Bussian	

Spoken Languages: English | Russian