Patryk Oleniuk

Lead Engineer — Software for AI & Data

About me

Software Engineer with broad skillset and unparalleled ability to learn voraciously and execute fast. Looking for senior roles in AI / ML.

Excited to work on:

- ☆ ML / Al / Data Science applications.
- ☆ Software interacting with hardware.
- ☆ Groundbreaking projects.

Contact

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Green Card Holder

O-1 Extraordinary Ability Visa

Skills

Coding	Basic 1mo+	A <u>d</u>	lvar	nced 3v-		\
python		$\stackrel{\cdot}{\bowtie}$	$\stackrel{\wedge}{\approx}$	$\stackrel{\cdot}{\approx}$	☆	☆
go		$\stackrel{\wedge}{\bowtie}$	$\stackrel{\wedge}{\sim}$	$\stackrel{\wedge}{\sim}$	$\stackrel{\wedge}{\approx}$	$\stackrel{\wedge}{\bowtie}$
SQL		$\stackrel{\wedge}{\approx}$	$\stackrel{\wedge}{\bowtie}$	$\stackrel{\wedge}{\approx}$	$\stackrel{\wedge}{\bowtie}$	
javascript		$\stackrel{\wedge}{\approx}$	$\stackrel{\wedge}{\bowtie}$			
C++		$\stackrel{\wedge}{\approx}$	$\stackrel{\wedge}{\simeq}$			
С		$\stackrel{\wedge}{\approx}$	$\stackrel{\wedge}{\bowtie}$			

Dev Ops

Docker	
bash & scripting	$^{\diamond}$ $^{\diamond}$ $^{\diamond}$ $^{\diamond}$ $^{\diamond}$
AWS EC2/S3	$^{\diamond}$ $^{\diamond}$ $^{\diamond}$ $^{\diamond}$ $^{\diamond}$
DBs management	$^{\diamond}$ $^{\diamond}$ $^{\diamond}$ $^{\diamond}$ $^{\diamond}$
Networking	$\diamondsuit \diamondsuit \diamondsuit \diamondsuit \diamondsuit \diamondsuit$

Data Processing & Visualization

Statistics for ML	
pandas, numpy	
plotly, DASH, streamlit	
MLOps with MLflow	$\diamondsuit \diamondsuit \diamondsuit \diamondsuit \diamondsuit \diamondsuit$
Spark	

Data Science & ML

Time Series Forecasting	$\Diamond \Diamond \Diamond \Diamond \Diamond \Diamond$
C/NNs, XGBoost	$^{\diamond}$ $^{\diamond}$ $^{\diamond}$ $^{\diamond}$ $^{\diamond}$
DNNs, GAN, image	$\Rightarrow \Rightarrow \Rightarrow \Rightarrow \Rightarrow$

Collaboration & Management

git	
Fast SW Prototyping	$^{\wedge}$ $^{\wedge}$ $^{\wedge}$ $^{\wedge}$ $^{\wedge}$
Confluence, JIRA	☆ ☆ ☆ ☆ ☆

Experience

- Designed, developed, and maintained cloud simulation run and analysis tool: golang(run&monitor), python(analyse), EC2/S3, ActiveMQ, MLflow, Tableau, Spark. Purpose: mass scaled simulations & batch analysis for generative transport designs. Result: 50x faster time-to-insight for executives' reports from 6months to 3days.
- Filed a patent based on work explained above.
- Trained & deployed demand prediction models using keras & Horovod, ARIMA, Prophet. Improved Hyperloop capacity utilization by 70% (in transport simulation).
- Managed 5 software products, from requirements definition phase, through execution, bug fixing and maintenance. Always delivered on time or earlier.
- Hired and mentored 3 junior developers.
- Presented at dev conferences, reached >50k tech viewers. One of my talks: [link].

• Sped-up python analytics code 150x by using Spark/koalas. My talk on how: [link].

- •Standardised simulation parameters and metrics by setting up shared python libraries, other coders within the organisation are relying on them every day.
- Built CLI based on go, EC2, S3 and docker that drastically improved reproducibility and automated data-science workflow for analytics team.
- Built interactive plots & dashboards, letting simulation team to deep-dive into data, resulted in >100 bugfixes and AI algorithms upgrades. Video showing my work: [link].

•Developed vehicle run automation, C++ on Linux, C on BareMetal over DDS. My code is still used in the test track [link], including the latest passenger test [link].

Education

EPFL - Ecole Polytechnique Fédérale de Lausanne	Master of Science
Q Electrical Engineering and Computer Science	2016 – 2018
Specialisation: Data Science, Machine Learning	Lausanne, Switzerland
WUT - Warsaw University of TechnologyBa	9

Full list of my employment(>5) projects(>10) and publications(>5) on linked.in/poleniuk.

Warsaw, Poland

Specialisation: Telecommunication and Multimedia