Patryk Oleniuk

Lead Software Engineer — AI & Data

About me

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

Excited to work on:

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

Contact

- patryk.oleniuk@gmail.com
- im linked.in/poleniuk
- patryk-oleniuk.github.io
- github.com/patryk-oleniuk
- Los Angeles, CA (open to relocate)
 US Green Card Holder
 US O-1 Extraordinary Ability Visa

Skills

Coding	B <u>asic</u> 6mo+	Adva	nced 3y+
python		$\Rightarrow \Rightarrow$	$^{\circ} \diamondsuit \diamondsuit \diamondsuit$
go		$^{\diamond}$	$^{\circ} \diamondsuit \diamondsuit \diamondsuit$
SQL		$\Rightarrow \Rightarrow$	$\Leftrightarrow \Leftrightarrow \Leftrightarrow$
C++.		$\Leftrightarrow \Leftrightarrow$	☆ ☆ ☆
javascript		$\Leftrightarrow \Leftrightarrow$	* * * *
С		$^{\diamond}$	

Dev Ops

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

Data Processing & Visualization

Statistics for ML	
pandas, numpy	
plotly, DASH, streamlit	$^{\diamond}$ $^{\diamond}$ $^{\diamond}$ $^{\diamond}$ $^{\diamond}$
MLOps with MLflow	$^{\diamond}$ $^{\diamond}$ $^{\diamond}$ $^{\diamond}$ $^{\diamond}$
Spark	$^{\diamond}$

Data Science & ML

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

Collaboration & Management

git	
Fast SW Prototyping	$^{\diamond}$ $^{\diamond}$ $^{\diamond}$ $^{\diamond}$ $^{\diamond}$
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 Al 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 - École Polytechnique Fédérale de Lausanne	Master of Science
O Electrical Engineering and Computer Science	2016 – 2018
Specialisation: Data Science, Machine Learning	Lausanne, Switzerland
WUT - Warsaw University of Technology	.Bachelor of Engineering

Q Electrical and Computer Engineering......2011 – 2014

Warsaw, Poland

Specialisation: Telecommunication and Multimedia

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