PETER JUNG

LLM Engineer & Web3

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Main skills: A combo of Web3 + ML since 2024. 8+ years of software development – including 7 years of **Python** and backend development, 6 years of **machine learning**, 2 years of **AWS**, and 3 years of machine learning, but focused on **MLOps**.

EXPERIENCE

Gnosis, Full Stack Decentralization — **January 2024 – Present**
LLM Engineer (+ Web3) — CONTRACT, Gibraltar

- Ideated, built proof of concept, and am currently shaping the development of a fraud protection agent for Safe & Metri.
- The main contributor/designer of the Prediction Market Agent Tooling library and Prediction Market Agents themselves.
- Agents achieve 75% or above accuracy in the prediction of future events.
- Top agents have hundreds of dollars in profit, as seen on our Dune Dashboard.
- Wrote contracts for prediction markets and published subgraphs.

leadiQ, Series B Startup — **November 2022 – March 2024**
Senior Machine Learning Engineer — CONTRACT, San Francisco, USA

- Migrated in-house data pipeline into Databricks (running on Spark and Delta Tables), reducing the run-time of processing 60M emails from days to hours and halving the costs.
- Refactored 2 models to MLFlow and deployed them on Databricks' serverless endpoints.
- Fine-tuned and served GPT3 models that write the best sales emails, increasing open and response rates.
- Created GPT-4 powered web scraper, navigating clients' websites and prefilling onboarding forms.

Emplifi Inc., Unicorn with a $1 Billion Valuation — **November 2020 – November 2022**
Researcher — Prague, CZ

- Increased the accuracy of the multilingual sentiment analysis (PyTorch) by 21%.
- Created a multi-modal (image and text input) model written in TensorFlow that reduces the workload of the other team by 84%.
- Optimised existing models to have more than 50% faster inference speed and lower memory usage.
- Implemented a reverse image and video search engine with PyTorch and FAISS, allowing quick search in thousands of images.
- Assured all experiments were 100% reproducible using tools like MLflow, Git, DVC, and Docker.
- Started a Python educational group, presenting tens of times about the latest Python topics.

Pilotcore Systems Inc. — **March 2022 – June 2022**
MLOps — PART-TIME CONTRACT, Toronto, CA

- Delivered machine learning infrastructure based on Terraform (Terragrunt) infrastructure as code (IaC) on AWS for 2 clients.
- Deployed MLflow and Airflow to Kubernetes, including KEDA auto-scaling, XComs stored in S3, and workers configured for Fargate and EC2.

Heureka Group, a.s. **July 2019 – October 2020**
Software Engineer Prague, CZ

- Designed the architecture of the whole system, including the NLP and boosted trees model, for automatic product pairing, using Kafka for message streaming and Docker for deployment in Kubernetes, PyTorch and TensorFlow as deep learning frameworks, automating 80% of the traffic.

M7, s.r.o. **July 2017 – July 2019**
Full Stack Developer Bratislava, SK

- Built dozens of backends and frontends for marketing and reporting systems for BMW, GGTabak and others.

EDUCATION

Faculty of Electrical Engineering, Czech Technical University **September 2018 - May 2020**
Master's degree, Artificial Intelligence Prague, CZ

- Published Using Machine Learning to Detect if Two Products Are the Same as a Diploma Thesis.

Faculty of Electrical Engineering and Information Technology of STU **September 2015 - June 2018**
Bachelor's degree, Automotive Mechatronics Bratislava, SK

OTHER

- **Certifications & Training:** 3x AWS certified (AWS Certified Machine Learning – Specialty, AWS Certified Developer – Associate, AWS Certified Cloud Practitioner).
- **Languages**: English (fluent), Portuguese (beginner), and Slovak (native).
- **Achievements**: MLPrague Speaker, Top 1% Vetted Developer (accepted at 8 top freelance platforms, including Turing.com and AWS).

PUBLICATIONS

On Discovering Interesting Combinatorial Integer Sequences **February 2023**

- Studied the problem of generating interesting integer sequences with a combinatorial interpretation.

Graph Generation with Graphon Generative Adversarial Networks **September 2022**

- Developed an elegant GAN model called GraphonGAN, which uses graphons implemented by neural networks as generators and graph neural networks as discriminators.

SIDE PROJECTS

Contributor to open source projects

- Pushed 2000+ commits in the last year, including to projects such as Prediction Market Agent Tooling, Prediction Market Agents, PyTorch, Hugging_Face, TensorFlow, or PyPika.

SwiftXGBoost - XGBoost machine learning framework for Swift - author

- The first Swift implementation for the XGBoost gradient boosting machine learning framework.