Raphaël Attias

Full-Stack Software Engineer at Databricks

📍 Amsterdam, NL 📞 +31657960233 ✉ raphael.attias@outlook.com 🔗 raphaelattias.com 💼 LinkedIn ⭘ Github

PROFESSIONAL EXPERIENCE

Databricks, Full-Stack Software Engineer 🔗   05/2023 – present
       Amsterdam, Netherlands
- Implemented a set of **unified backend metrics** across Workflows task types in **Scala**, critical for monitoring system reliability and alerting feature teams to potential issues, enhancing overall platform stability and performance.
- Contributed to the development of a **task plugin system**, enabling the rapid creation of **8 new standardized task types**, and collaborated with teams like **Lakeview and GenAI** to integrate new functionalities.
- Led the development of a **unified scheduling interface** using **React**, impacting **5000+ workspaces** and resulting in thousands of scheduled jobs and recurring revenue.
- Implemented a new **scheduling UI** with pagination, recent runs, and quick actions, improving **user efficiency** and collaborating with **PMs and clients** to refine features.
- Owned the **public rollout** of the unified scheduling UI, promptly addressing issues and collaborating with stakeholders to ensure a smooth production deployment, impacting over **5000 workspaces**.
- Spearheaded the **cluster settings project**, improving job **run success rates** and directly impacting **recurring revenue** by automatically configuring optimal settings based on user history.
- Secured **first place** at the internal Databricks engineering **hackathon** by developing a one-click solution for notebook importation, featuring an embeddable button for seamless integration with external websites.

University of Geneva, Software Developer 🔗   09/2022 – 12/2022
       Geneva, Switzerland
- Developed in Python a web library for understanding energy needs with graph modeling.
- Contributed to an existing framework by adding key features when handling networks and geodata.

NEC Laboratories America, Software & Research Intern 🔗   02/2022 – 08/2022
       Princeton, USA
- Tested data augmentation techniques in order to improve model generalization for the segmentation of cancer cells in whole-slide pathology images.
- Contributed to the existing framework in Pytorch by implementing an uncertainty estimator.

EDUCATION

Harvard University, Postgraduate Researcher Fellow   09/2022 – 03/2023
       Boston, USA
- Develop advanced Machine Learning methods to analyze slide pathology images.
- Motivated Self-Supervised Learning for detecting regions of interest in an unlabeled set of slide images.
- Implemented Transformers Interpretability methods for interpretations of pathological predictions.
- Extend the existing framework by implementing and testing Convolutional Nets, Vision Transformers, and other state-of-the-art models using Pytorch.

Swiss Federal Institute of Technology (EPFL), Master Degree in Computer Science   09/2020 – 03/2023
Focus on Machine Learning, Data Science, and Computer Vision. GPA: 5.51/6 (Swiss), 3.64/4 (US)   Lausanne, Switzerland

Swiss Federal Institute of Technology (EPFL), Bachelor Degree in Mathematics   09/2017 – 09/2020
Focus on Numerical Analysis, Statistics, and Numerical Optimization. GPA: 5.06/6 (Swiss), 3.37/4 (US)   Lausanne, Switzerland

PUBLICATIONS

Quantification of the suitable rooftop area for solar panel installation from overhead imagery using Convolutional Neural Networks, Journal of Physics 🔗   08/09/2021

SKILLS

Back End — Python, Scala, Java, SQL, Bazel, gRPC, GraphQL

Front End — Typescript, React, Redux, Apollo, Cypress, Jest

Machine Learning — Python, Pytorch, Lightning, Tensorflow, Scikit, Huggingface, Wandb

REFERENCE LETTERS

Prof. Martin Jaggi, *Professor of Machine Learning,* EPFL

Dr. Eric Cosatto, *Senior Researcher,* NEC Labs America

Prof. Kun-Hsing Yu, *Professor of Biomedical Informatics,* Harvard Medical School