

Raphaël Attias

Full-Stack Software Engineer at Databricks

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PROFESSIONAL EXPERIENCE

Databricks, Software Engineer L4

08/2024 – present

Amsterdam, Netherlands

- Extended support of the **unified scheduling interface** to Notebooks, independently owning planning and development, now handling 1,500+ new scheduled jobs daily with a 15x increase in UI adoption.
- Unified **alerting** and **metric** observability across Workflows and Live Tables, directly routing appropriate alerts to feature teams.
- Won the Databricks internal **Hackathon**, for developing a 1-click solution to import notebooks from external websites into Databricks accounts.
- Implemented pinning mechanism to allow for a smooth upgrade of workloads in the versionless runtime.
- Architected a Python exception handling library enabling granular error classification and improved incident triaging.

Databricks, Software Engineer L3 [🌐](#)

05/2023 – 07/2024

Amsterdam, Netherlands

- Led the development of a **unified scheduling interface** using **React**, impacting **3000+ 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.
- Spearheaded the **cluster settings project**, improving job **run success rates** and directly impacting **recurring revenue** by automatically configuring optimal settings based on user history.
- Owned the **public rollout** of the unified scheduling UI, promptly addressing issues and collaborating with stakeholders to ensure a smooth production deployment, impacting over **3000 workspaces**.
- 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 **UI/UX reviews** with the design committee and conducted design consultations with designers, resulting in improved user experience across multiple products and seamless integration of new features.

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