

Emanuel GEROMIN



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PROFILE

Versatile software engineer committed to delivering high-impact, maintainable software. I favour incremental approaches, frequent de-risking and data driven decision making.

Looking for companies envisioning a future in which technology serves individuals, communities and nature as a whole, there is no waste, and humans find deep meaning and connection in the work they do.

TECH STACK

Python, Pytorch, Huggingface, Tensorflow, Triton, Scipy, Scikit-learn, Numpy, Pandas, Dask, OpenCV, PIL, Django, Kubernetes, Terraform on AWS, Serverless, Postgres, Gitlab CI, Argo.

PERSONAL INFORMATION

Citizenship: **Italian**

Languages: **English, German, Italian** (all fluent)

EDUCATION

UNIVERSITY OF CAMBRIDGE, CHRIST'S COLLEGE. Cambridge, UK. BA (Hons) Mathematics, Class 2.1. 2009–2012

◇ Pure mathematics, probability, statistics, applied mathematics.

UNIVERSITY OF WARWICK. Coventry, UK. MSc Mathematics. 2012–2013

◇ Number theory, algebraic geometry, analysis and algebra.

◇ Dissertation: Spectral Theory for $SL_2(\mathbb{Z}) \backslash \mathbb{H}$.

RECURSE CENTER. New York, NY, USA.

April–June 2018

◇ Self-directed programming retreat. Projects in deep learning and reinforcement learning.

EXPERIENCE

ONFIDO LTD. Senior Software Engineer and Tech Lead. London, UK. March 2019 – Current (5 years)

AI solution to extract structured text and identify fraud in passports and other official ID documents.

◇ Tech lead for a team of 6 engineers, responsible for the delivery of a document extraction solution at scale.

◇ Implemented systems using state-of-the-art AI: Donut, LoRA, CLIP.

◇ Scaled fraud detection systems by 1000X, measured by number of ML models.

◇ Built the company's main orchestration system, a complex DAG of 50 ML-based services.

◇ Increased throughput of batch training pipelines by 50X.

NEXT42 SP.Z.O.O. Software Engineer. Kraków, Poland. November 2016 - March 2018 (1.5 years)

ML based solutions at a software house.

◇ Built AI-based web crawlers to extract information from semi-structured web pages using Python and spaCy.

◇ Distributed scraping of 10M webpages, bypassing IP-based throttling.

◇ Launched a "travel visa application tool" website from zero in 1.5 months, generating \$4K revenue in the first 2 weeks of usage.

3D INDUSTRIES LTD. Software Engineer. London, UK. March 2014 - October 2016 (2.5 years)

Startup building "Google for 3D". Built a multimodal search engine for 3D CAD models.

◇ Created a search engine indexing 300K 3D CAD models.

◇ Multi-modal input: 3D, images, 3D scans, text. Early days deep learning with Caffe.

◇ Collaborated with leading academics from Stanford University.

SIDE PROJECTS

◇ *Image captioning pipeline* using deep learning.

◇ *Reinforcement Learning*: Tic-Tac-Toe AI and a RaceTrack learner, implemented in Julia and Elm.

◇ *Wellington*: a blogging engine written in Rust.

HOBBIES

◇ *Permaculture and circular farming*: 6-week volunteering on a permaculture farm in Feldbach, Switzerland, summer 2023.

◇ *Outdoors*: Keen runner and outdoor mountain sports enthusiast. Enjoy hiking, trekking and ski-touring.

◇ *Classical music*: Amateur classical musician. Sung in London-based choir The Cantus Ensemble. DipABRSM diploma in violin performance.