Emanuel Geromin



@ egeromin@gmail.com

- +44 753 8909 147
- emanuelgeromin.com
- github.com/egeromin

PROFILE

Versatile ML 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.
- \diamond 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. Staff Software Engineer.

Previously: Senior Software Engineer, Software Engineer II London, UK. March 2019 – Current (6 years)

Identity verification software using AI.

- ⋄ Tech lead for a team of 15 engineers.
- \diamond Delivered 10 percentage points of automation on our system serving 200M+ users, increasing revenue by \$2M per year.
- \diamond Implemented operationalised model fine-tuning at scale using LoRA.
- ⋄ 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.

- \diamond 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.
- \diamond 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.
- \diamond 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

- Outdoors: Running, hiking, trekking and ski-touring.
- ⋄ Classical music: Tenor in choir, DipABRSM violin performance.
- ⋄ Permaculture and circular farming: 6 weeks volunteering, summer 2023.