

Tom Pollak

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EXPERIENCE

Cisco Meraki <i>ML Software Engineer – Camera Intelligence Team</i>	June 2023 – Present <i>Remote, UK</i>
<ul style="list-style-type: none">Independently researched, designed, & implemented a novel unified search experience with a single model.Project is set to be the “market differentiator” for the entire MV product line and was demoed at Cisco Live 2024.Current Technical lead of a team of 6 engineers & 2 managers to get the project in production with highest priority.Also lead a team at the Cisco San Francisco Hackweek 2023 for preliminary work on the project.Developed a 10K LOC C++ library, with full testing suite & benchmarks in GTest.Created quantized edge device inference equivalent to the original with minimal quantization error.Collected and curated a high-quality dataset of >50K images. Finetuned a SigLIP text encoder to align NLP queries.Originally hired as a summer intern in 2022, rejoined full-time in 2023. Intern Reference (Related project)	

EDUCATION

University of York <i>BEng. Computer Science – First Class Honours</i>	June 2023
Lady Manners School <i>A-Level – Further Maths (A), Maths (A), Computer Science (A), Physics (A)</i>	2020

PROJECTS

Interpretability Research https://github.com/tom-pollak/interpretability-culture	July 2024 – Present
<ul style="list-style-type: none">Working on interpretability research in my spare time. Completing ARENA 3.0 and applied to MATS program.	
Claudette Pydantic https://github.com/tom-pollak/claudette-pydantic	July 2024
<ul style="list-style-type: none">Adds Pydantic structured outputs through tool use for the Claudette library – Example.	
NLP Image Retrieval with CLIP https://tom-pollak.github.io/clip-index	September 2022 – June 2023
<ul style="list-style-type: none">University dissertation project – graded 80%. Built ImageNet CLIP search. Eval models, indexes, hyperparameters.	
Automated Horse Betting Software https://github.com/tom-pollak/each-way-matcher	December 2020 – July 2021
<ul style="list-style-type: none">Discovers undervalued horses in each-way betting by exploiting bookmaker “place” odds.Uses an adapted Kelly Criterion strategy to calculate the optimal stake.Calculates conditional probability of a horse finishing in a given place using the win odds of all horses.	
Poker Web Application https://github.com/tom-pollak/web-poker	April 2019 – July 2020
<ul style="list-style-type: none">Free live poker web app, users can create accounts and tables, play poker, and chat with other players.	

COURSES

Mastering LLMs	June 2024
SANS Institute – FOR500 Windows Forensic Analysis	August 2020

SKILLS

Languages	Python, C++, Cuda C.
ML	PyTorch, Huggingface, Pydantic, Axolotl, llama.cpp, einops, scikit-learn.
Tools	Linux, VSCode, Neovim, Docker, Git, SQLite, \LaTeX .