

Tom Pollak

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EXPERIENCE

- Cisco Meraki** June 2023 – Present
ML Software Engineer – Camera Intelligence Team *Remote, UK*
- Independently researched, designed, & implemented a novel unified search experience with a single model.
 - Developed a 10K LOC C++ library, with full testing suite & benchmarks in GTest.
 - Currently technical lead of a team of 6 engineers & 2 managers to get the project in production with highest priority.
 - My project is set to be the “market differentiator” for the entire MV Camera platform and demoed at Cisco Live 2025.
 - Lead a team at the Cisco San Francisco Hackweek 2023 for preliminary work on the project.
 - Ran quantization aware training to make the model suitable for edge device inference.
 - 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** June 2023
BEng. Computer Science – First Class Honours
- Lady Manners School** 2020
A-Level – Further Maths (A), Maths (A), Computer Science (A), Physics (A)

PROJECTS

- Interpretability Research** July 2024 – Present
<https://github.com/tom-pollak/interpretability-culture>
- Working on mechanistic interpretability research in my spare time.
- Claudette Pydantic** July 2024
<https://github.com/tom-pollak/claurette-pydantic>
- Adds Pydantic structured outputs through tool use for the Claudette library – [Example](#).
- NLP Image Retrieval with CLIP** September 2022 – June 2023
<https://tom-pollak.github.io/clip-index>
- University dissertation project – graded 80%. Built efficient NLP image search using CLIP and Faiss.
- Automated Horse Betting Software** December 2020 – July 2021
<https://github.com/tom-pollak/each-way-matcher>
- 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** April 2019 – July 2020
<https://github.com/tom-pollak/web-poker>
- 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 .