

# 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/claudette-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,  $\text{\LaTeX}$ .