Chris Fleetwood

Software Engineer



• FL33TWooD

fleetwood.dev

+44 7900317067

in christopher-fleetwood

Huggingface

Machine Learning Engineer

January 2024 – Present

London, UK

- > Continued development of web-first ML framework within the HF ecosystem.
- > Reverse engineered parts of the CoreML stack for deeper insights into the Apple Neural Engine.

Ratchet.sh June 2023 – January 2024

Founder London, UK

- > Wrote a web-first WebGPU ML framework from scratch capable of running Whisper & BERT. Remains the fastest web implementation of Whisper as of Jan 2025.
- > Authored and optimized all GPU kernels required for modern transformers.
- > 1.7k+ stars & featured on Github Trending.

TrueLayer April 2022 – June 2023

Rust Backend Engineer - Core Banking

London, UK

- > Project lead on FPS payment reversal handling. My design resulted in an 85% reduction in on-call pages.
- > Maintained and owned our systems during a 13x increase in TPV to £2B in a single quarter.

J.P Morgan September 2020 – March 2022

Associate Software Engineer - Research Distribution

London, UK

> Received accelerated promotion to Associate within 12 months, achieved by the top 5%.

UEA Laboratory of Personalised Medicine in Dementia

June 2020 - July 2021

Research Assistant

Norwich, UK

- > Implemented an NLP pipeline to quantify medication side effects from 5+ million FDA medication profiles.
- > Presented novel feature fusion for multiple brain imaging modalities to predict pre-dementia at OHBM '21.

J.P MorganJune 2019 – August 2019

Software Engineer Intern

Geneva, CH

> 1 of 7 selected from 100s of UK applicants to move to Switzerland to work in the JPM Suisse office.

Education

University of East Anglia

2017 - 2020

BSc. Computer Science - First Class (79%, 4.25GPA)

Norwich, UK

△ Projects

WGPU

- > Implemented high performance matrix multiplication using WebGPU in my benchmark suite.
- > Implemented significant parts of the WebGPU specification in #5701 & #3603.

Publications

A multi modal approach for diagnosis of cognitive impairment

Presented OHBM '21

> Presented our work on novel feature fusion of multiple brain imaging modalities to diagnose pre-dementia.