# Joachim Pfefferkorn

Programmer

## EXPERIENCE

**Freelance, Software Developer — May 2024 - Present**

Pipeline TD and rendering for a medical documentary on endometriosis. Currently using Python, NumPy, OpenVDB,  and Blender to build 3D imaging for MRI data.

**Participant, Recurse Center — February 2024 - May 2024**

Started the open source emoji mosaic project "Spritefire" written in Go, using Raylib. Reviewed and integrated pull requests from fellow Recurse Center participants to improve performance and expand functionality to a live webcam version.

Learned Rust and Graphics Programming:

- Read *The Rust Programming Language* book and worked on *Rustlings*
- Used WGPU and Rust to build custom graphics pipelines

**Independent Study — July 2023 - February 2024**

Significantly improved my Python and C++ skills. Learned Go.

Learned some Multivariate Calculus, Discrete Math, and Linear Algebra

Completed Coursera Courses:

- *Python 3 Programming* - University of Michigan
- *Machine Learning Specialization* - Stanford and DeepLearning.AI
- *Mathematics for Machine Learning: Linear Algebra* - Imperial College London

**Director of 3D Operations, Flug Films — December 2022 - June 2023**

Designed and operated  body, head and prop scanning photogrammetry rigs as well as Pipeline TD in Python for processing scans.

**VFX Supervisor and Founder, Light Range — February 2021 - November 2022**

Supervised VFX both on set and in post for advertisements and music videos, oversaw business operations, contractor hiring, and client management.

**Freelance, Data Wrangler and Motion Graphics — August 2018 - February 2021**

C4D/Octane and After Effects work for commercials, music videos, and TV shows.

## EDUCATION

NYU Tisch — BFA in Film and Television Production, Study Abroad in Paris and Havana
Graduated Magna Cum Laude with Honors in 2019

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