Adel Refat

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Links

Github://adel-elmala LinkedIn://adel-elmala

Projects

2022 Ray Tracer

Repo

Built a ray tracer from first principles using no external libraries other than the one that will take the final pixel data and save it on disk in a PNG format.

> C++Repo

About Me

Looking for an entry level job in the software development industry, With a particular interest in 3D computer graphics (E.g. render engines, ray tracers...) , and Image Processing. Mainly using C or C++, I'm open to 2021 Neural Model Optimization Tool learn new languages, techs, and tools.

Skills

LANGUAGES

C/C++

OS GNU/Linux

OTHERS

Pthreads, Intel Intrinsics, GCC image processing, OpenGL, GNU Make, Markdown, Git, ŁTFX.

Education

2016-2021 **CAIRO UNIVERSITY Biomedical Engineering** Very Good

2021 small image processing library

Optimized mini-img-processing libary implemented from scratch using C, Pthreads, And Intel-intrinsics.

C

Repo

An automated optimization tool to help save time and resources in calibrating neural computational models to experimental measurements

Python

2020 16-Bit von neumann architecture Assembler

Repo

Trasnlates from Hack's assembly instuctions to hack's 16-bit Machine language

Python

2020 JPEG decoding Stepper

Repo

Shows the different stages of Decoding JPEG Files

Python

More Projects

Certificates and MOOCS

2020-Now Machine Learning

Certificate

Machine Learning Basics (Supervised/Unsupervised learning - Neural Networks ...)

2020-NOW Programming Languages part B

Certificate

Introduction to the basic concepts of programming languages, with a strong emphasis on functional programming using Racket (Dynamic type system language).

2020-Now Programming Languages part C

Introduction to the basic concepts of programming languages, with a strong emphasis on OOP programming using Ruby (Dynamic type system language).

2020-Now Build a Modern Computer from First Principles - Part 1

Certificate

Build a modern computer system, from the ground up from constructing elementary logic gates all the way through creating a fully functioning general purpose computer).

More MOOCS