

José Filipe Ferreira

COMPUTER SOFTWARE ENGINEER · HIGH PERFORMANCE COMPUTING

Real, Braga, Portugal

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Education

Minho University

Braga, Portugal

MASTERS IN COMPUTER SOFTWARE ENGINEERING

2020 - PRESENT

- Parallel and Distributed Computing
Parallel Algorithms: 15/20
Parallel Computing Paradigms: 16/20
- Graphical Computing
Visualisation and Illumination I: 17/20

Minho University

Braga, Portugal

B.S. IN COMPUTER SOFTWARE ENGINEERING (15/20)

2017 - 2020

- Computer Architectures: 16/20
- Graphical Computing: 19/20

Skills

Programming C, C++, CUDA, GLSL, Bash, Python, Java, Rust, SQL
Tools Git, Linux, LaTeX, Docker, CI/CD
Languages Portuguese (native), English (C2 with Cambridge CPE)

Extracurricular Activity

ENEI 2020

Braga, Portugal

ORGANIZATION MEMBER, GRAPHIC DESIGNER AND PHOTOGRAPHER

Feb. 2020

- National Meeting of Computer Science Students focused on Talks and Workshops with various Companies
- Gained experience in Leading Teams and Organizing Large Events

CeSIUM Collaborator @ Image Department

Braga, Portugal

GRAPHIC DESIGNER AND PHOTOGRAPHER

Set. 2018 - Nov. 2020

- Gained experience working as a team in a asynchronous environment

Official MiEI Discord

Discord

CO-CREATOR AND ADMINISTRATOR

Feb. 2018 - PRESENT

- A community with 1700+ members focused on helping and mentoring new students

Projects

Dotprod (University Project)

GitHub Repository

C, VECTORIZATION, CUDA

Grade: 15/20

- Matrix Multiplication Optimization exploring Memory Access optimizations, Vectorization and CUDA
- Gained experience on Programming Heterogeneous Platforms using CUDA

Parallel Raytracer (University Project)

GitHub Repository

C++, PARALLELIZATION

Grade: 14/20

- Raytracer Performance Optimization using a Thread Pool, Work Queue and Bounding Volume Hierarchy

Terrain Generation (University Project)

GitHub Repository

GLSL

Grade: 17/20

- Terrain Generation based on GLSL shaders and height maps

Engine (University Project)

GitHub Repository

C++, OPENGGL, XML

Grade: 19/20

- Generic Graphic Engine capable of efficiently rendering any kind of scene defined in a XML configuration file