# SOFIANE **DJERBI**Computer Science | Mathematics

i I'm a 22 years old passionate developer who loves to build and create awesome software.

## </> KEY SKILLS

Languages Python, Java, C, C++, Rust, Nim, Haskell, OCaml, Bash, GLSL Libraries Pyplot, Numpy, Pandas, Gloss, SDL2, NCurses, Scipy, Rayon

Tools Git, Maven, Gradle, Makefiles, Linux, Doxygen, ŁTFX, Github, Sphinx, Shadertoy

# **EXPERIENCE**

## September 2021

#### er 2021 | Math Tutor, DLST, Université Grenoble Alpes

July 2022

- Weekly monitoring of first-year students.
- Ensure understanding of abstract mathematical concepts.
- Supervise a group of students and introduce them to a mathematical topic.

Set Theory | Applied Mathematics | Real Analysis |

#### December 2021 April 2022

## Internship (Project Manager), CEA LETI, IM<sup>2</sup>AG

Project planning and scheduling.

- Working with a group of students on a project.
- Interfacing microcontrollers.

Visual Basic | Python | Microcontroller | Project Management | API Creation

# LANGUAGES



- Quick learner, absorbs new knowledge with ease
- Resourceful problem solver, consistently innovative

# **EDUCATION**

2022 - 2023 Magistère de Mathématiques

2019 - 2022 Licence Mathématiques et Informatique, mention "Bien"

2015 - 2019 Baccalauréat Scientifique, mention "Bien"

# Awards

#### November 2021

# CS Contest Winner, IM<sup>2</sup>AG, Université Grenoble Alpes

- Solving problems as a team.
- Dealing with NP-Hard problems.

Problem Solving Teamwork Git

# PROJECTS

#### Julia Rotation / Mandelbrot zoom

2022

#### https://www.youtube.com/watch?v=zFuwUMd3WK4

A GLSL Shadertoy implementation of a simple Julia morph and Mandelbrot zoom.

Interactive versions are available here.

GLSL Shadertoy GPU

#### HASKELL CONNECT4

2021

## github.com/Kugge/Haskell-Connect4

Implementation of the Connect 4 game in Haskell, with minimax AI.

Haskell Minimax Gloss

## Nonogram Solver

2021

Python Scrapping Logic Sat Solvers MTEX

# PyBoy Env

2020

Python PyBoy Reinforcement Learning Gym