

# EDUARDO SANDALO PORTO

+55 19 992685143 ◊ eduardosandaloport@gmail.com

Willing to relocate & remote work ◊ From São Paulo - SP, Brazil

<https://github.com/edusporto> ◊ <https://linkedin.com/in/edusporto/>

## SUMMARY

---

Interested in software engineering, AI, parallel and efficient computing, functional and systems programming, critical systems, programming languages, solving problems, and learning new things.

## WORK EXPERIENCE

---

### Catholic University of Leuven (KU Leuven, Belgium)

July 2022 - December 2022

*Research Internship on AI and Programming Languages*

- Research project to improve an implementation of the back-propagation algorithm.
- Used Haskell and multi-stage programming to achieve up to 5.7x speedup in automatic differentiation.

### Sinch

January 2020 - April 2021

*Artificial Intelligence & Software Engineer Intern - fully hired in December 2020*

- Designed and deployed artificial intelligence based systems for chatbots through machine learning, image processing, computer vision, and natural language processing.
- Developed back-end systems on the cloud using Google Cloud Platform and AWS with Python, TypeScript, and experimental projects with Rust.
- Developed a system for document classification and recognition with over 95% accuracy and better legibility than the previous method.
- Worked on projects with three new companies that decided to expand their partnership with Sinch.

## EDUCATION

---

### University of São Paulo (USP)

January 2020 - December 2024

*B.Sc. in Computer Science*

- Co-lead in R&D at **Turing USP**, a student research group on Artificial Intelligence. 2022
- Organized the **13th Week of Computing** at IME-USP. 2022
- Teaching assistant on **Fundamental Concepts in Programming Languages** (MAC0316). 2022
- Teaching assistant on **Principles of Algorithm Design** (MAC0122). 2021
- Taught algorithm classes on BixeCamp 2021 for **MaratonUSP**. 2021

### COTUCA - Unicamp

January 2017 - December 2019

*Technical Course / Certificate on Informatics*

- Teaching Assistant from 2018 to 2019 on the Informatics course.

## RELEVANT PROJECTS

---

### Algebraic Methods for Creating and Reasoning about Programs

2022

*Haskell*

*Advised by Professor Tom Schrijvers @ KU Leuven*

- Uses mathematics and abstract algebra to define and improve automatic differentiation algorithms.

### Multi-platform NES emulator

2022 - 2023

*Rust, 6502 Assembly*

Native and WebAssembly implementation of an NES emulator from the ground up.

## Assistive Technology for Colorblind People

2019

*Android; Rust, Java, Renderscript*

- Won first place at **Sedcitec Jr 2019**. Utilizes image processing and computer vision to help colorblind people on color-focused activities. Consists of three main tools: color identification, color filtering, substitution of color to geometric patterns (with the intent to help understanding of maps and charts).

## SKILLS

---

<b>Languages</b>	English (fluent), Portuguese (native), Spanish (intermediary), German (basic)
<b>Fields</b>	Software Engineering, Back-end, Functional Programming, Systems, R&D, AI
<b>Programming</b>	Python, C++, C, JavaScript, TypeScript, Java, Kotlin, Rust, Haskell, ...
<b>Cloud</b>	AWS, Google Cloud Platform
<b>Tools</b>	Adobe Creative Cloud, MS Office, LibreOffice, Kdenlive
<b>Soft Skills</b>	Problem-solving, Teamwork, Versatility, Communication, Leadership, Reliability
<b>Others</b>	SQL & NoSQL, Git, Linux & Operating Systems, System Design

## RELEVANT EXTRACURRICULAR

---

Brazilian ICPC Summer School 2022	Brazilian Computer Society & Unicamp - 2022
Course on Pure Functional Programming and Applications	University of São Paulo, IME - 2021
Course on Type Driven Development	Federal University of ABC - 2021
Python for Natural Language Processing	University of São Paulo, ICMC - 2021
Neuroscience course at the São Paulo Brain Bee	Albert Einstein Israelite Hospital - 2019
Neuroscience course taught by the Faculty of Medical Sciences	Unicamp - 2019
Mini-course on Artificial Intelligence	Unicamp, SeEMTeC - 2018