

ANDRÉ LUÍS MENDES FAKHOURY

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EDUCATION

Universidade de São Paulo - São Carlos, Brazil

Bachelor in Computer Science

February 2018 - December 2022 (expected)

CGPA 9.4/10, 5th place in class (out of 118)

Colégio Técnico Industrial Isaac Portal Roldán - Bauru, Brazil

Informatics Technical High School

February 2015 - December 2017

CGPA 9.0/10, 1st place in class (out of 60)

MAJOR PROJECTS AND ACTIVITIES

Image curves reconstruction by means of robust features

October 2020 - September 2021

Computer vision focused scientific initiation project.

· Contemplated fields of image pre-processing - including segmentation, noise reduction and boundary extraction -, curvature and robust features calculus, besides curves reconstruction by means of previously extracted important points.

University Teaching Assistant - Introduction to Computer Science

March 2019 - June 2019

· Helped professors with the development and grading of exams, projects and exercises for introductory Computer Science classes. Gave weekly tutoring classes about C programming language and programming logic, helping students to improve their skills on their first contact to programming.

University Teaching Assistant - Calculus 2

August 2019 - November 2019

· Prepared and gave weekly tutoring classes to exercises solving and concepts review about integration techniques, curves, several variable functions and more. Also helped professors with the development and correction of tests.

University Teaching Assistant - Laboratory of Advanced Algorithms 2

October 2021 - Current

· Helped the professor on the organization of classes and preparation of weekly exercises related to Graphs, Dynamic Programming, Number Theory and Computational Geometry, aiming to help the students to learn advanced algorithms in a practical way.

Member and Teacher of GEMA

February 2018 - Current

University Study group focused on Competitive Programming Collegiate Contests and Olympiad in Informatics training, with weekly classes about algorithmic challenges.

· Gave C++, key algorithms and data structures lectures to about 100 undergraduate students per year, and competed in several competitive programming contests.

Member and Writer of GANESH

February 2018 - February 2019

University Extension group focused on information security.

· Wrote blog posts about cryptography and security attacks on Medium platform (which received over 3 thousand views), participated in Capture the Flag competitions and watched lectures about basics of security related topics, such as networking, web security, reverse engineering and social privacy.

Member of DATA

February 2019 - February 2020

University Extension group focused on data science and machine learning.

· Went to weekly meetings and lectures about Python, key algorithms, machine learning, data pre-processing techniques and frameworks.

BMP Compressor

April 2021 - June 2021

A compressor to BMP files using some well-known multimedia algorithms

· Developed in C, without using any auxiliary frameworks, for Multimedia classes. It converts the original BMP file into a compressed binary .bin file, and can later decompress it back to BMP with a small perceptible difference in human eyes.

Oblivious Memories

April 2017 - November 2017

An educational RPG/Visual Novel about World War Two, made by a team of nine high school students.

· Built with Unity3D, using the C# Language.

· Technical degree final project, aiming to influence the study of History on fundamental schools.

SKILLS

Programming Languages

· C/C++ - 7 years
· Python and Java - 5 years
· PHP, C#, SQL and JavaScript - 3 years
· Delphi - used for 9 months

Languages

· Portuguese (native)
· English (advanced)

Areas of interest

· Competitive programming
· Data Structures
· Image processing
· Computer vision

AWARDS

· 4th place out of 64 (Silver Medal) in the 2020-2021 ACM-ICPC Latin American Regional Programming Contest - 2021
· 2nd place out of 799 in the 2020-2021 ACM-ICPC Brazil Subregional Programming Contest - 2020
· 12th place out of 57 in the 2019-2020 ACM-ICPC Latin American Regional Programming Contest - 2019
· 12th place out of 687 in the 2019-2020 ACM-ICPC Brazil Subregional Programming Contest - 2019
· 32th place out of 746 in the 2018-2019 ACM-ICPC Brazil Subregional Programming Contest - 2018
· 25th place out of 1821 (Honorable Mention) in the Brazilian Olympiad in Informatics (OBI) - 2018
· First Place in the Regional Mathematical Olympiad of Unesp Bauru for Public Schools (ORMUB) - 2017
· Bronze Medal in the Brazilian Physics Olympiad for Public Schools (OBFEP) - 2016
· Bronze Medal in the Brazilian Astronomy Olympiad (OBA) - 2016