ANDRÉ LUÍS MENDES FAKHOURY

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EDUCATION

Universidade de São Paulo - São Carlos, Brazil   *February 2018 - December 2022 (expected)*
Bachelor in Computer Science   *CGPA 9.4/10, 5th place in class (out of 118)*

Colégio Técnico Industrial Isaac Portal Roldán - Bauru, Brazil   *February 2015 - December 2017*
Informatics Technical High School   *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.*

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.*

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 compresses 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.*

University Teaching Assistant - Introduction to Computer Science *March 2019 - June 2019*
· *Helped professors with the development and correction of tests, projects and exercises for introductory Computer Science classes. Gave weekly classes about the C programming language and programming logic, helping developers to improve their skills on their first contact to programming.*

University Teaching Assistant - Calculus 2   *August 2019 - November 2019*
· *Prepared and gave weekly extra 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 competitive programming, 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.*

SKILLS

Programming Languages	**Languages**	**Areas of interest**
· *C/C++ - 7 years*	· *Portuguese (native)*	· *Competitive programming*
· *Python and Java - 5 years*	· *English (advanced)*	· *Data Structures*
· *PHP, C#, SQL and JavaScript - 3 years*	· *Spanish (intermediate)*	· *Image processing*
· *Delphi - used for 9 months*		· *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*