

Vanessa Vieira

Curriculum Vitae

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Education

- Oct 2019 – **Technische Universität Graz (TU Graz), Graz, Austria**, *Master of Science, Computer Science*.
Present Expected to finish in 2021.
- 2015 – 2019 **Universidade Federal de Alagoas (UFAL), Maceio, Brazil**, *Bachelors of Science, Computer Science*.

Skills & Abilities

- Programming Languages SWIFT, PYTHON, C, C++, JAVA
- Software GIT, LATEX, QT, FIREBASE, ADOBE PHOTOSHOP

Example Projects

- Aug 2018 – **An Auctioning Strategy for Virtual Mobile Network Service Provisioning**, COMPUTER SCIENCE RESEARCH AND PYTHON PROGRAMMING.
Dec 2018 Wrote a Python code to solve a combinatorial problem with a heuristic in polynomial time. Studied the use of a game theory-based auctioning strategy to absorb high peak demands of mobile services clients.
- Apr 2017 – **Amarmentar**, SWIFT PROGRAMMING.
May 2017 Wrote a Swift code for an IOS app that aims to facilitate communication between mothers who have excess breast milk for donation and government sites that manage milk donations in conjunction with a neonatal hospital. Thus, specialized government sites can register the need and mothers with excess breast milk can choose the place of donation.

Experience

- Dec 2017 – **Undergraduate Researcher**, LABORATORY OF SCIENTIFIC COMPUTATION AND NUMERICAL ANALYSIS (LACCAN), Maceio, Brazil.
- Acted as an Undergraduate Researcher in the field of Network Virtualization and Wireless Sensor Networks.
 - Used concepts of Game Theory and Auction Theory to develop auction strategies to solve the problem of allocating Virtual Network Functions to clients, using Python as the programming language.
 - Received a scholarship funded by CNPq.
 - In 2019, won the prize for best paper in the II Workshop of Scientific Initiation and Undergraduate Research of SBRC (WTG) presented during the XXXVII Brazilian Symposium on Computer Networks and Distributed Systems (SBRC 2019).
- Jul 2017 – **Software Developer**, LABORATORY OF SCIENTIFIC COMPUTATION AND VISUALIZATION (LCCV), Maceio, Brazil.
- Acted as software developer for geomechanics research in a project on salt caves, in partnership with Petrobras.
 - Developed a configurable computational environment using Qt and C++ for the economics of engineering resources, and more specifically, the problem of salt caves.
 - Received a scholarship funded by FUNDEPES.

Sep 2016 – **Researcher and Trainee**, EDGE INNOVATION CENTER, Maceio, Brazil.

- Mar 2017
- Acted as trainee in the Project of Excellence in Microelectronics (PEM).
 - Gained experience with basic and intermediate concepts of electronics and microelectronics, as well as experience with Verilog and System Verilog hardware languages.
 - Obtained experience with Amazon Web Services services: IoT, DynamoDB, Gateway API and Lambda Function.
 - Received a scholarship funded by FUNDEPES.

Volunteer Experience

Ago 2017 – **President**, STUDENT ACADEMIC CENTER OF COMPUTING (DIACOM) – COMPUTING
Ago 2018 INSTITUTE – UNIVERSIDADE FEDERAL DE ALAGOAS (UFAL), Maceio, Brazil.

- Acted as President of a nonprofit organization whose main goal is to represent the needs of undergraduate students in Computer Science and Computer Engineering at Universidade Federal de Alagoas (UFAL).
- Held several welcome events for freshmen.
- Promoted and participated in the renovation of an unused room, transforming it into a student lounge.
- Helped to write and approved in student assembly the first statute of the organization and also developed the first website.
- Participated in plenary and collegiate of the undergraduate degrees meetings representing students in the decisions of the Computing Institute.

Languages

Portuguese **Native Speaker**
English **Advanced**
Deutsch **Basic**

Toefl IBT Score 93 (2018)

Currently taking A1.2 class at Deutsch in Graz