

Hitalo Cesar Alves

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Hard Skills

- Java | Python | C | Kotlin
- AOSP | Android framework | Android application | Mobile | Git | Linux
- Computer theory | Algorithms | Nature-Inspired algorithms | Machine Learning | Mathematics | Electronics | Portuguese, English

Experiences(full-time, intern and academic)

Android Framework Software Engineer, **Motorola** *Jaguariúna, SP, BR* **04/2021 - Now**
Intern and full-time

- Implement customizations in the **Android operating system**, with a specific focus on the **framework, SystemUI**, internal privileged/system and security applications to align with Motorola's strategic objectives, serving a global user base of millions.
- Solve various kinds of bugs, including UX and performance issues, leading to an enhanced user experience for a global audience.
- Contribute to the conception, prototyping, and implementation of exclusive features for premium devices, particularly foldable ones.
- Explore Android Open Source Project (**AOSP**) architecture and its operational aspects, including building, code search, and related procedures.
- Develop software solutions with a critical eye for quality while maintaining open lines of communication with customer experience and testing teams, consistently advocating for the best possible user experience within the technical constraints.

Academic Cooperation, **UNIGOU - Brno University of Technology** *Remote/Czech Republic* **02/2023 - 09/2023**
Academic

- Employed Python to develop an educational interface aimed at aiding people comprehending Particle Swarm Optimization(PSO) and its application in solving optimization problems, especially the Traveling Salesperson Problem(TSP).
- Study PSO to comprehend the consequences of parameter variations and investigate how to adapt it to solve TSP.
- Perform literature review to gain a comprehensive understanding of key nature-inspired optimization algorithms, such as PSO, Genetic Algorithm(GA), Ant Colony Optimization(ACO), among others.

Scientific Initiation in Mathematics, **UNICAMP** *Campinas, SP, BR* **08/2019 - 08/2021**
Academic

- I was one of the authors of a research paper titled: "Estudo analítico e computacional de uma equação diferencial estocástica associada a um modelo de crescimento populacional" published in a national magazine. In the paper stochastic calculus is applied to model and simulate population growth.
- Applied **Python** and computer skills to simulate and validate theoretical stochastic calculus concepts.
- Engaged in theoretical studies related to stochastic calculus topics and mathematical concepts related to this field.

Research and Teaching Assistant student, **UNICAMP(FEEC - IMECC)** *Campinas, SP, BR* **05/2018 - 02/2021**
Intern and Academic

- Tested and contributed to the enhancement of tractography methodologies using software developed by an UNICAMP research group.
- Collaborated with a mathematics professor in the development of class notes for a Calculus 1 course.

Biomedical Engineering Technician, **UNICAMP(CEB)** *Campinas, SP, BR* **04/2019 - 04/2020**
Intern

- Developed a low cost cardiac monitor using ESP32 and a touch screen display.
- Understand the principles of biomedical engineering.
- Observed interdisciplinary engineering professionals performing maintenance on biomedical devices.

Education

Bachelor of Computer Engineering, **UNICAMP** *Campinas, SP, BR* **2018 -2023**
Graduated with Distinction

Technical High School of Electronics **CEFET** *Araxá, MG, BR* **2015 -2017**

Professional Goals

Keep applying my technical abilities and creative problem-solving skills to drive innovation and make a meaningful impact in the tech industry, all while fostering connections with people, learning and contributing to projects that positively influence the lives of others.

Soft Skills

- Communication | Open to learn | Adaptability | Flexibility | Teamwork | Persistence | Critical thinking | Creativity

Others

- Sports | Chess | Music | String musical instruments | Astronomy | Education | Interesting stories(fiction or not)