

# Hitalo Cesar

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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(contract, intern and academic)

**Android Framework Software Engineer,**  
*Intern and Contract*

**Motorola**

*Jaguariúna, SP, BR*

**04/2021 - Now**

- 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,**  
*Academic*

**UNIGOU - Brno University of Technology**

*Remote/Czech Republic*

**02/2023 - 09/2023**

- Employed **Python** to develop an educational interface aimed at aiding undergraduate and graduate students at Brno University in comprehending Particle Swarm Optimization (PSO) and its application in solving 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,**  
*Academic*

**UNICAMP**

*Campinas, SP, BR*

**08/2019 - 08/2021**

- 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,**  
*Intern and Academic*

**UNICAMP(FEEC - IMECC)**

*Campinas, SP, BR*

**05/2018 - 02/2021**

- 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,**  
*Intern*

**UNICAMP(CEB)**

*Campinas, SP, BR*

**04/2019 - 04/2020**

- 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,**  
*Graduated with Distinction*

**UNICAMP**

*Campinas, SP, BR*

**2018 -2023**

**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 | Interesting stories(fiction or not)