Hitalo Cesar Alves

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Skills

- Java | Python | C | Kotlin
- AOSP | Android framework | Android application | Android SDK | Mobile | Git | Linux
- Nature-Inspired algorithms | Mathematics | Electronics | Portuguese, English

Full-time Experiences

Associate Android Software Engineer, **Motorola Mobility** *Jaguariúna, SP, BR* **08/2022 - Now**

• Implement customizations within the Android operating system, placing a specific focus on the framework, SystemUI, internal privileged/system components and security applications, serving a worldwide user base of millions.
• Contribute to the conception, prototyping, and implementation of features for premium devices, particularly the foldable ones.
• Solve various kinds of bugs, including UX and performance issues, leading to an enhanced user experience for a global audience.
• Develop software solutions while maintaining open lines of communication with customer experience and testing teams, consistently advocating for the best possible user experience within the technical constraints.

Internship Experiences

Android Software Engineer Intern, **Motorola Mobility** *Jaguariúna, SP, BR* **04/2021 - 08/2022**

• Implement customizations in the Android operating system, with a specific focus in the SystemUI, 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.
• Explore the Android Open Source Project(AOSP) architecture and its operational aspects, including building, code search and related procedures, while working to enhance my proficiency in Java and Kotlin.

Biomedical Engineering Technician, **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.

Academic Experiences

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

- 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(IMECC)** *Campinas, SP, BR* **08/2019 - 08/2021**

- I was one of the authors of a paper published in a national magazine, applying stochastic calculus 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**

- 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.

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

Apply my technical abilities and problem-solving skills to contribute to projects that positively influence the lives of others; while learning new things and interacting with friendly people.

Others

- Communication | Open to learn | Adaptability | Flexibility | Teamwork | Persistence | Critical thinking
- Sports | Chess | Music | String musical instruments | Astronomy | Education | Interesting stories(fiction or not)