

# CARLOS HENRIQUE FERREIRA BRITO FILHO

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## EDUCATION

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**Federal University of Rio de Janeiro**  
*Bachelor's degree in Computer Engineering*

Expected graduation: Spring 2026  
Current GPA: 3.7/4

## TECHNICAL SKILLS

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Programming Languages: **PHP**, **Python**, **JavaScript**, C++, Java.

Tools: **Kubernetes**, **Docker**, **Slim**, **Flask**, **Vue.js**, Git, SQL, Pandas, LaTeX.

Languages: Proficiency in both **English** and **Portuguese**, intermediate **French** (B1).

## WORK EXPERIENCE

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**Software Developer**

Jan 2021 – Present

*CERN*

Geneva, Switzerland

- Designed and implemented web applications that serve the LHCb experiment using mainly **PHP**, **Python**, **JavaScript** and **Oracle SQL**.
- Developed powerful APIs using PHP with **Slim**, Python with **Flask** and container orchestration with **Kubernetes** for the applications.
- Led the development of several products E2E, starting from gathering system requirements and partner dependencies to software implementation, engineering and testing.
- Worked on a multidisciplinary project alongside IT professionals, scientists and students from all over the world.

## ACADEMIC EXPERIENCE

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**COPPETEC Grantee**

Jan 2021 – Present

*Signal Processing Laboratory*

Rio de Janeiro, Brazil

- Undergraduate research project based at UFRJ's Signal Processing Laboratory (LPS) in collaboration with CERN.

## PUBLICATIONS AND PRESENTATIONS

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**Brito Filho, C H F; Souza e Silva, G J; Corti G; Closier J. The migration to a standardized architecture for developing systems on the Glance project.** In Proceedings of the Computing in High Energy and Nuclear Physics (CHEP) 2023 Conference, Virginia, USA.

## RELEVANT COURSEWORK

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- Data Structures
- Algorithms
- Computer Theory
- Digital Logic
- Calculus I - IV
- Physics I - IV