

# Lucas Cristiano Calixto Dantas

Software Engineer

## contact

Natal, RN  
Brazil

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## languages

native portuguese  
advanced/fluently english  
basic french

## technical knowledge (summary)

Python, Java, JavaScript,  
C, C++

Django, NodeJS, React,  
Spring

HTML, CSS

PostgreSQL, MySQL,  
MongoDB, Redis

Android, Ionic

Git, Docker,  
TravisCI, CircleCI

FIWARE, OpenStack,  
Arduino, RaspberryPi,  
MQTT, CoAP

MacOSX, Linux, Windows

## education

- 2018–2019 **Masters** of Systems and Computing Federal University of Rio Grande do Norte, UFRN  
*Research area: Software Engineering - Software Architecture*
- 2017–2017 **Bachelor** of Software Engineering Federal University of Rio Grande do Norte, UFRN  
*Final paper: Development of support tools for the use of IoT and context FIWARE components*
- 2013–2017 **Bachelor** of Information Technology Federal University of Rio Grande do Norte, UFRN  
*Emphasis in Software Engineering*
- 2010–2013 **Technician** in Informatics Federal Institute of Education, Science and Technology of Rio Grande do Norte, IFRN

## experience

### Research and Development

- 2018–2019 **R&D ON IOT SUPPORT WEB PLATFORMS** Federal University of Rio Grande do Norte, UFRN  
*Volunteer on development project at Digital Metropolis Institute (IMD)*  
Project for development of a web-based support platform for deployment of IoT-based environments and support the creation of IoT applications, using Internet of Things (FIWARE) and cloud computing (OpenStack) platforms. The solution was developed using technologies as: Python and Javascript languages; the Django WEB framework; the React library; Celery and RabbitMQ; Websockets; Docker; and the databases PostgreSQL, Redis and MongoDB.
- 2017–2018 **R&D ON IOT AND SMART CITIES** Federal University of Rio Grande do Norte, UFRN  
*Volunteer on Smart Metropolis project, of Digital Metropolis Institute (IMD)*  
Research and development project aimed at creating solutions applied to the context of Smart Cities, using Internet of Things (FIWARE) and cloud computing (OpenStack) platforms, creating solutions developed in the Python language and based on the use of tools of services management and orchestration (Docker).
- 2014–2017 **R&D ON AUTONOMOUS SYSTEMS AND IOT** Federal University of Rio Grande do Norte, UFRN  
*Research and development fellow at ARAM Project at Digital Metropolis Institute (IMD)*  
Research and development project aimed at implementing an adaptive solar tracking system guided by the needs of solar radiation monitoring tools, through the application of embedded systems (Arduino and RaspberryPi), using C/C++ and Python programming languages, and control and monitoring web systems, using the Python language and the Django framework.

2013–2013    **R&D ON GAME DEVELOPMENT**    Federal University of Rio Grande do Norte, UFRN  
*Research and development fellow in the GamEdu laboratory in the development of Educational Digital Games*  
 Research and development project aimed at elaborating educational games, for the teaching of basic education subjects, through the use of game development engines (Construct2) and including tools in the created games for the teaching of programming (Scratch).

## Professional Experience

2017–2017    **SOFTWARE DEVELOPMENT INTERNSHIP**    Information Tech. Superintendence of UFRN, SINFO  
 Development and maintenance on academic management WEB systems of Federal University of Rio Grande do Norte (UFRN), using the Java programming language, the Java Server Faces (JSF) WEB framework and the PostgreSQL database.

## awards

2017    **TITLE OF ACADEMIC MERIT**    Federal University of Rio Grande do Norte, UFRN  
 Student awarded as having the best results on the conclusion of Software Engineering course (2017.2)

2018    **HACKATHON CSBC 2018**    Congress of the Brazilian Computer Society, CSBC  
 Member of the winning team of the Hackathon for creating Internet of things (IoT) solutions, promoted by the *Center for Advanced Studies of Recife (CESAR)* and *Brazilian Computer Society (SBC)* in the *XXXVIII Congress of the Brazilian Computer Society*

## volunteer projects

2018    **INTERVIEWS APPLICATION SYSTEM**    Natal, RN  
 Development of a system for a research group of UNICAMP/SP, for the application of synchronized quantitative researches, using tablets and smartphones, exporting reports with the collected data using JavaScript, with ReactJS and NodeJS for the control of the application and Android with Kotlin for the development of the participant's application.

2016    **CLASSROOM AND STUDENTS MANAGEMENT SYSTEM**    Natal, RN  
 Development of the student and catechesis meetings management system of the church of Nossa Senhora da Candelária, in the city of Natal/RN, using Java and PostgreSQL.

2013    **SGI-ADIC/RN SYSTEM**    Natal, RN  
 Development of a student and classes management system for a non-governmental organization in the eastern zone of Natal/RN (ADIC-RN), using C# and MySQL.

## additional information

Lecturer in various mini-courses and training of technologies and tools

Annual participation in conferences and technical conferences (Python Brasil, Python Nordeste)