

December  
2023

# Victor Santos Galvão Baptista

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João Pessoa, Brazil

## SOFTWARE DEVELOPMENT SUMMARY

- Experienced FullStack developer, with strong data analysis, communication skills and a collaborative mindset.

## SKILLS

- Speaks Portuguese (native) and English (proficient: EF SET - C2 Proficient; IELTS Overall: 7.0)
- Main Programming Languages: Python, TypeScript, JavaScript, SQL
- Frameworks: React.js, Next.js, Node.js, React Native
- Software: Excel, Git, GitHub, VSCode, Beekeeper Studio, Insomnia, Miro, Kanbanflow, Inkscape

## EMPLOYMENT & EXPERIENCE

### Freelancer (Game Developer) December 2020 - Present

- Leading the development multiplayer infrastructure simulation using GDScript.
- Constructed an algorithm for 2D procedural generation of pixel-art cities with Perlin noise and contour calculations.
- Contributed to game design by proposing new mechanics for enhanced player experience.

### Fresh Water Program in the State of Paraíba, Brazil (FullStack Developer) Jul/22 - Jan/23 and Oct/23 - Dec/23

- Revived and developed the Fresh Water Program website, implementing a single-page application architecture.
- Created web and mobile applications using React.js and React Native, backed by Node.js (TypeScript).
- Integrated a chlorine dosing calculator into both clients, facilitating program team tasks.
- Innovated by automating document generation specific to the State of Paraíba using Python.
- Created promotional material for the program, including banners and agenda

### SMART-Control consortium (Researcher) June 2018 - March 2020

- I actively contributed to risk analysis in various stages of a managed aquifer recharge pilot site.
- Organized field studies on controlled aquifer recharge in Recife and João Pessoa, facilitating master's research by students from Technical University of Berlin and Federal University of Paraíba.
- Published findings in the Journal of Environmental Management (<https://doi.org/10.1016/j.jenvman.2023.118034>)

### IBI Engenharia Consultiva S/S (Civil Engineer) May 2019 - January 2020

- Updated the inventory of strategic reservoirs for the State of Paraíba, automating Excel spreadsheets using VBA.
- Created and executed water balance routines for each strategic dam to update their regularization curves in the State Water Resources Plan (<http://www.aesa.pb.gov.br/aesa-website/documentos/plano-estadual/atualizacao-perh/>)

### Freelancer (Excel Workshop Instructor) May 2017 - June 2019

- Delivered intermediate Excel courses to students of environmental engineering and the general public.

## EDUCATIONAL BACKGROUND & QUALIFICATIONS

### Rocketseat Explorer Program (Fullstack Web Developer) March 2022 - March 2023

- Completed a 100-hour training program covering web fundamentals and advanced topics with React.js and Node.js.
- Developed a RESTful API with clear separation of backend and frontend.

### Intro to Computer Science (Harvard CS50 course in Brazil) May 2022

- Completed an extension course covering basic programming concepts, C language, Arrays, Algorithms, Memory, Data Structures, Python, SQL, HTML, CSS, JavaScript, Flask, and Ethics.

### Intro to Artificial Intelligence (CEAR/UFPB and Huwaei) June 2021

- Completed an extension 40-hour course covering basic artificial intelligence concepts.

### Federal University of Paraíba (Master's Degree in Civil and Environmental Engineering) April 2018 - September 2020

- Conducted scientific research involving fieldwork and computer simulations at the intersection of sustainable urban drainage and managed aquifer recharge.
- Led various field tests and utilized Python for data processing and hydraulic simulation.

### Federal University of Paraíba (Civil Engineer) August 2010 - December 2016

- Conducted scientific research integrating urban drainage and structural design.

### English Course at CCAA February 2003 - July 2008

- Attained proficiency in English language skills through a 4.5-year course.