Yuri Matheus Dias Pereira

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São José dos Campos, State of São Paulo, Brazil | 07/08/1995

Yuri-M-Dias | StackOverflow | LinkedIn | GitLab

EDUCATION

MS SPACE ENGINEERING AND TECHNOLOGY

National Institute for Space Research (INPE)

Mar 2018 - Ongoing |
São José dos Campos, BR
Area: Space Systems Engineering and Management

BS SOFTWARE ENGINEERING

Federal University of Goiás (UFG)

Dec 2017 | Goiânia, BR

SKILLS

SOFTWARE

Professional experience:
Java • Groovy • JavaScript + NodeJS • Grails • Bash • Ruby on Rails • Meteor • Angular 1.x • Maven • Docker • Git • R
Projects built:
C • C++ • CSS • Android • Arduino
Python • Unity • LaTeX • Tomcat
ReactJS • AdonisJS
Familiar/Hobby:
Rust • VimL • FishShell

LANGUAGES

English: Fluent, TOEFL IBT 107 @ 2017
French: Intermediate
Japanese: JLPT N5 @ 2019
Portuguese: Native

COURSEWORK

SPACE SYSTEMS

Coursework:
Introduction to Satellite Communications
Concepts and Systems for Spacecraft Operations
Space Data Systems
Data Science Algorithms

PROFESSIONAL EXPERIENCE

MEDIALAB/UFG | Software Engineer

Jul 2017 - Jan 2018 | Goiânia, BR

- Researched an Augmented Reality experience for the Cora Coralina Museum.
- Continued development of a Meteor application to train UFG HR department on campus' laws using gamification.

FITSMIND | Software Engineering Intern

Apr 2017 – Jun 2017 | Remote, based in Norway

- Lead an effort to add TDD practices and a testing structure for the main application.
- Part of the full-stack development team on Ruby on Rails and Angular.

ZG SOLUÇÕES | Software Engineering Intern

Sep 2016 – Fev 2017 | Goiânia, BR

- Part of the development team for one section of the main application, working with Grails and doing full stack work.
- Led an effort to update testing for the main application using Cucumber and Selenium, focused on business rules.

I9 TECNOLOGIA | Software Engineering Intern

Aug 2015 – Aug 2016 | Goiânia, BR

- Worked on updating the accounting application to use newer technologies and abstractions, using Spring and Java 8.
- Modeled the business relationships in an UML system (Astah).

RESEARCH

INPE | Full time Master's Student

Mar 2018 – Ongoing | São José dos Campos, BR
Working on Data Analysis tools and algorithms to support spacecraft operators at the Satellite Control Center (CCS), doing research on Big Data for Satellite Operations. Awarded a CAPES scholarship to work full time.

PUBLICATIONS

[1] Y. M. D. Pereira, S. C. Amauri, B. C. Junqueira, L. R. Raimundi, S. G. Guimarães, and G. Loureiro, "Lessons learned on Systems of Systems Engineering: Systems Concurrent Engineering of a Constellation of Cubesat Formations," in *70 Th International Astronautical Congress (IAC)*, (Washington DC), 2019.

[2] G. A. Guimarães, Y. M. D. Pereira, H. A. D. do Nascimento, and C. d. S. Rocha, "Programação visual para os cubos interativos c^3," in *Anais do IV Simpósio Internacional de Inovação em Mídias Interativas*, (Goiânia, GO, Brazil), pp. 572–583, Media Lab / UFG, 2016.

VOLUNTEER WORK

2020	Organizer at the III CubeDesign competition, co-responsible for Data Science category
2019	Organizer at the II CubeDesign competition, responsible for data management and CanSat payload operations
2019	Organizer at the Workshop of Engineering and Space Technology (WETE)