JOHNATHAN FERCHER DA ROSA

Tech Lead (Staff Software Engineer)

🌐 johnfercher.com   in johnathan-fercher   ⌾ johnfercher

EXPERIENCE

Tech Lead
Mercado Libre

📅 2024/01 – Nowadays   📍 Remote

- I am working in FOS-In team developing features releated to inbound process.

Senior Software Engineer
Gympass

📅 2023/08 – 2023/12   📍 Remote

- I worked in the PACE team developing features related to check-in and booking.

Software Engineer II
Uber

📅 2022/05 – 2023/04   📍 Remote

- I worked in Ambient Safety team developing features related to safety.

Senior Analyst Developer
Mercado Libre

📅 2019/04 – 2022/04   📍 Remote

- I worked in the follow teams (TMS, FOS, XD-Orchestrator) developing features related to logistics.

Junior Analyst Developer
Braspag (Cielo)

📅 2017/08 – 2019/01   📍 Rio de Janeiro

- I worked in Risk team developing features related to antifraud.

Scientific Internship
National Laboratory of Scientific Computing (LNCC)

📅 2014/03 – 2015/02   📍 Petrópolis

- In the LNCC, I worked at Laboratory of Collaborative Environments and Applied Multimedia (ACiMA) with virtual reality.

Traineer of Research and Development
Allen Informática

📅 2013/03 – 2014/01   📍 Petrópolis

- I worked in P&D team developing features of many projects.

EDUCATION

M.Sc. in Robotics
Military Institute of Engineering

📅 2015/01 – 2017/01   📍 Rio de Janeiro

Dissertation title: Construction of a Framework of Path Planning and Trajectory Control in Real Time of Multiple Robots

B.Tech. in Information and Communications Technology
FAETERJ

📅 2012/01 – 2015/01   📍 Petrópolis

Monograph title: Construction of a robot soccer team to the category IEEE Very Small Size Soccer

LANGUAGES

Portuguese   ●●●●●

English   ●●●◐○

Spanish   ●●◐○○

SKILLS

Golang   Object-Oriented Programming
C++   Design Patterns   Microservices
Domain-Driven Design   Observability
Software Architecture   SOLID   C#
Automated Testing   Messaging   REST
Docker   MySQL   ElasticSearch
Datadog   Document Database
Key-Value Database   Kibana   NewRelic
Git/Github   Linux & MacOS   Jira
Slack

HONORS & AWARS

🏆 **Runner-up Robocup 2D Soccer Simulation League**
Latin American Robotics Competitiont

🏆 **4th Place - IEEE Very Small Size Soccer**
Latin American Robotics Competition

PROJECTS

Maroto
OpenSource (+1700 stars on Github)

- Maroto is an opensource golang library that allows the generation of PDFs in an easy way. The main focus of maroto is to be simple, with that in mind, the library has a grid system based on Bootstrap and there are some components that aid the development of complex documents.

Blog
Medium

- My personal blog where I write about many subjects, in general: programming, robotics, academic, games and hack.

Presentations
Opened and Internal Events

- Campus Party, The Developer's Conference, DevFest - SUL (Google Developers Group Event), MELI Tech Day (Mercado Libre Internal Event), TechTalk (Braspag Internal Event), CCOMP Talk (UNIFESO Event) and Various Academic Events.

TaleSlab
OpenSource

- TaleSlab is an opensource project that generates maps (slabs) to the game TaleSpire. Was done a clean room reverse engineering in the game protocol to understand how to serialize and deserialize the data correctly, and was developed a map generation engine.

VSS-SDK
OpenSource

- The VSS-SDK is an opensource project that aid to build robot soccer teams. The SDK focus on IEEE Very Small Size Soccer category present on Latin-American Robotics Competition.

SIRLab
Laboratory

- The SIRLab is a laboratory from FAETERJ-Petrópolis which realizes research in robotics. The laboratory has projects of Rescue Simulation, Smart Home, Robot Soccer (IEEE Very Small Size Soccer) and Soccer Simulation (RoboCup 2D Soccer Simulation).

Volunteer
Staff

- Google Developers Group, Petrópolis.
- Brazilian Robotics Olympiad

PUBLICATIONS

📄 Journal Articles

- Rosa, J., & Rosa, P. (2020). Multiple path planning of terrestrial robots in dynamic environments. *Military journal of science and technology*, *38*, 27–36.

👥 Conference Proceedings

- Rosa, J. F., & Ferreira Rosa, P. F. (2017). A general approach to the problem of path planning and trajectory control of multiple terrestrial robots in dynamic environments. In *2017 brazilian symposium on intelligent automation*, Porto Alegre, Brazil.
- Rosa, J. F., & Ferreira Rosa, P. F. (2016). Construction of a framework of path planning and trajectory control in real time of multiple robots. In *III workshop on msc dissertation and phd thesis in robotics*, Recife, Brazil.