

Ribeirão Preto – SP
Brazil
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Carlos Eduardo Gallo Filho

Curriculum Vitae

Education

Bachelor's in Computer Science, FFCLRP – University of São Paulo, Ribeirão Preto 2022–Present
– SP – Brazil.

Willing to finish in the end of 2024 (there is only one remaining course).

Bachelor's in Medical Physics, FFCLRP – University of São Paulo, Ribeirão Preto – 2018–2021
SP – Brazil.

Incomplete.

Experience

Cloud Analyst, Opus Software, Remote. 03/2024–Present

- General management tasks on a cloud infrastructure in AWS.
- Usage of Docker, Kubernetes and Terraform technologies.
- Management of monitoring and alerting tools, including Grafana and Prometheus.

Developer, X.Org Foundation, Remote, X.Org Endless Vacation of Code (EVoC) 06/2023–09/2023
Mentorship Program.

- I was mentored in a 3 month project working on increasing code coverage of the Linux kernel graphical subsystem (DRM) code by developing unit tests.

Infrastructure Analyst, Zeus A.I. DeepL, Ribeirão Preto – SP – Brazil. 09/2021–06/2023

- Management of GNU/Linux servers with LXD containers, Nginx web servers and reverse proxies, PostgreSQL databases.

Skills

Programming

Shellscript: Advanced

C: Intermediate

C++: Basic

Python: Intermediate

Java: Basic

SQL: Basic

Zig: Basic

Technologies

GNU/Linux: Intermediate

Git: Intermediate

Academic Productions

Undergraduate scientific research, Physics Department – FFCLRP – University of São Paulo, Ribeirão Preto – SP – Brazil. 2020–2021

Organic Field Effect Transistor with Electrolytic Gate Detection System Improvement

- I designed a complete PCB from scratch controlled by a Raspberry Pi, which included: multiplexers, ADC converter, adjustable power source and instrumentation amplifiers.
- I developed a Python program for measure control and data analysis, including real time graph plot.

Undergraduate scientific research, Physics Department – FFCLRP – University of São Paulo, Ribeirão Preto – SP – Brazil. 2019–2020

Field Effect Transistor with Extended Gate Detection System Miniaturization

- I miniaturized a biosensor data acquisition system by designing an electronic circuit empowered by a Raspberry Pi.
- I developed a Python program for measure control and data analysis.

Projects

8 bit computer: I'm currently making a breadboard 8 bit computer using 74xx IC family.

Game packet sniffer: I made TCP proxy in Zig that parses network packets of a specific online game.

Snake Game: A 2.5D snake game made using C++, FreeGLUT and plain OpenGL.

Multispectral Image Acquisition: An embedded system to take multi-spectral images using C++, ESP32 microcontroller and a handmade PCB.

Free Software Contributions

Linux Kernel: Mostly unit tests for DRM (graphics) subsystem.

Language

Portuguese: Native

English: Intermediate