

Ricardo Ribeiro

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Hi, my name is Ricardo, I'm a generalist programmer (with a tendency to low-level like 3D, compilers, ...) if it needs to be done I'm up for the challenge. I'm able to learn quickly and I'm very active outside of working hours always learning new stuff.

Interests: systems prog, performance, DOD, everything real-time 3D, C, Zig,...

TECHNICAL SKILLS

Languages: C/C++, Go, Python, Java, SQL (Postgres), OpenGL

Frameworks: Spring, Apache Airflow

Developer Tools: Linux, Git, Docker, Kubernetes, Ansible, Bazel

EXPERIENCE

Software Engineer

Feb. 2022 – Now

CriticalTechworks (BMW)

Porto, Portugal

- Helping build reprocessing platform for Autonomous Driving for BMW
- Implemented a new feature for managing issues on car logging sessions to save all developers' reprocessing time
- Worked on a Postgres mirror from MaprDB using Foreign Data Wrappers, improve logging on an open-source postgres extension in C. Introduced static type checking improving Python Airflow code quality
- **Tech:** Java Spring Backend, C++ Automotive (CAN, ETH, FlexRay...), Python, Apache Airflow, Ansible, Helm, Openshift, Zull CI, Docker, PostgreSQL, MaprDB, Grafana, Prometheus

Software Engineer Intern

Feb. 2020 – June 2020

Faro Technologies

Porto, Portugal

- Designed system from scratch for a back office web app to manage product life cycle of desktop apps
- Developed frontend, backend and database modeling
- **Tech:** React (Typescript), .NET Core, EF Core, Docker

PROJECTS

3D Engine | C++, OpenGL

- 3D engine capable of doing basic rendering, framebuffers, lighting
- OBJ loading using tinyobjloader
- Custom arena allocator and math library
- Using ImGui, Cmake, GLFW

Self Driving Toy | Python, Arduino

- Implemented Python Kivy Server on Android
- Arduino Motor controller
- Basic Motion Control using Otsu Binarization

Greenlight API | Go, Postgres

- Implemented a REST API in golang for managing movies
- Custom error handling
- Postgres database integration

EDUCATION / CERTIFICATES

Machine Learning Specialization

July 2022

Coursera

Bachelor of Informatics Engineering

Sep. 2017 – Feb 2021

Instituto Superior de Engenharia do Porto

Porto, Portugal

IELTS Certificate

June 2021

British Council

Porto, Portugal