

Ricardo Ribeiro

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Hi my name is Ricardo, I'm interested in making self-driving cars not only possible but safe.

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

TECHNICAL SKILLS

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

Frameworks: Spring, Apache Airflow

Developer Tools: Git, Docker, Kubernetes, Bazel

EXPERIENCE

Software Engineer

Feb. 2022 – Now

CriticalTechworks (BMW)

Porto, Portugal

- Helping build reprocessing platform for Autonomous Driving for BMW
- Linux development environment, English speaking environment
- GitHub/Git pull requests, reviews, cherrypicking, rebasing, squashing
- **Tech:** Java Spring Backend, C++ Automotive (CAN,ETH,FLEXRAY...), Python, Apache Airflow, Ansible, Helm, Openshift, Zull CI, Docker, PostgreSQL, MaprDB, Grafana

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