Lucas Chelini Castello

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Native Portuguese, fluent English

EDUCATION

State University of Campinas (UNICAMP)

Computer Science and Computer Engineering **2019 – 2023**

Extra credits on digital images, machine learning, programming paradigms and advanced physics.

Federal University of São Carlos (UFSCar)

Physics Engineering **2015 – 2018**

WORK EXPERIENCE

T-Systems

Global leader on IT and comunication services, part of the Deutsch Telekom group

Developer I **Jan 2024 – Jun 2024**

Implemented the server and client sides of an Intrusion Detection System for cars, using **C++**. Also developed a way for testing it using **Python**.

Mywork

Startup focused on HR solutions for small and medium-sized companies

Full-Stack Web Developer **Feb 2022 – Jun 2023**

Developed a new initial panel for manager users, using **React** and **Ruby on Rails**, among other technologies, which decreased the amount of unecessary requests to the server, as was visible in the AWS CloudWatch metrics graphics.

Also helped on architecting and implementing the new Vacation feature, being the second feature deployed by the company.

ACTIVITIES

Brazilian Agricultural Reserch Corporation (EMBRAPA)

State corporation created to develop technologies aimed at agriculture

Undergraduate researcher **Sep 2021 – Feb 2022**

Pariticipated on the adapting of the Century simulator for carbon sequestration models, which involved translating it from **Fortran** to **R**, and also creating **Python** scripts to to automate auxiliary tasks, such as adapting data to Century's format.

UNICAMP E-Racing

UNICAMP's Formula SAE eletric team, starting an autonomous project at the time

Autonomous System Vision Leader **Jul 2021 – Dec 2021**

Led a four member team to optmize the vision pipeline. Framerate increased by 4 times.

Autonomous System Vision Member **Jan 2021 – Jun 2021**

As a sole member of the Vision division, developed a pipeline for cone's pose estimation (cones were the track marking) based on a monocular camera, using **Python** and a few **computer vision** algorithms. Initial framerate of about 5 FPS, later increased to 20 FPS as said above.

Autonomous System Telemetry Member **Mar 2020 – Dec 2020**

Developed the frontend of a web application that served as car telemetry, using **React**.