

Lucas Chelini Castello

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Native Portuguese, fluent English

EDUCATION

State University of Campinas (UNICAMP, Campinas-SP)

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, São Carlos-SP)

Physics Engineering

2015 – 2018

WORK EXPERIENCE

T-Systems

Global leader on IT and communication 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 unnecessary 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 Research Corporation (EMBRAPA)

State corporation created to develop technologies aimed at agriculture

Undergraduate researcher

Sep 2021 – Feb 2022

Participated 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 automate auxiliary tasks, such as adapting data to Century's format.

UNICAMP E-Racing

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

Autonomous System Vision Leader

Jul 2021 – Dec 2021

Led a four member team to optimize 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**.