

Lucas Romanó Santos

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EXPERIENCE

- **FOX Broadcasting Company through X-Team** Remote
Senior Software Engineer Jun. 2021 - Dec. 2021
 - Development and maintenance of [Go/Golang](#) microservices related to identity, personalization and security used by millions of users across fox.com, nation.foxnews.com, foxsports.com and foxbusiness.com.
 - Design and implementation of zero downtime database migrations ([ElasticSearch](#) to [DynamoDB](#)).
- **Red Ventures** São Paulo, SP - Brazil
Senior Software Engineer Mar 2019 - Jun 2021
 - Head of architecture and development of marketing automation tool used across several projects for Red Ventures Brazil - currently delivering more than 5MM emails and 2MM SMS per day.
 - Development of several APIs and microservices using [Go/Golang](#), [MySQL](#) and cloud solutions: [SQS](#), [SNS](#), [Lambda](#), [ECS](#), etc; Management of Cloud Infrastructure ([AWS](#)); Application of technologies and methodologies such as infrastructure-as-code ([Terraform](#)), [CICD](#), containerized applications ([Docker](#)), monitoring ([New Relic](#)), etc.
 - Compliance of partners security audits and resolution of identified threats.
- **PACER** Curitiba, PR - Brazil
Software Engineer Apr 2018 - Apr 2019
 - Development of an [aircraft boarding facilitator \(now Azul Carpet\)](#) - an interactive carpet projected on the floor that coordinates the order that passengers enter the plane according to their corresponding seat, improving boarding speed up to 7 minutes.
 - Application of Convolution Neural Network frameworks solutions; development of object tracking algorithms; [Linux](#) environment setup and replication; dataset collection and optimization; Implementation of solutions with YOLOv3, OpenCV, GStreamer, NVidia drivers, etc.
- **C3SL - Scientific Computing and Open-Source Software Center** Curitiba, PR - Brazil
Linux System Administrator Jun 2015 - Dec 2016
 - Support of more than 90 virtual machines ([QEMU](#)) in multiple [onsite](#) servers; kernel customization.
 - Physical network and storage configuration: VPC setup, disk redundancy, IOPs monitoring, etc.

EDUCATION AND CERTIFICATIONS

- **Bachelor of Computer Science** Curitiba, PR - Brazil
Federal University of Paraná Jan. 2014 - Dec. 2018
- **Information Systems Technologist** Curitiba, PR - Brazil
Federal Institute of Paraná Jan. 2011 - Dec. 2013
- **AWS Certified Developer - Associate** Feb. 2020
- **Certified Secure Developer - HackEDU** Sep. 2020

PROJECTS

- **Cidade em Memórias:** Solo conception and development of historic preservation app for sharing local stories of places and buildings; [serverless backend on AWS](#) and platform-hybrid with [Flutter](#), released on January 2022 and under active development, available on [App Store](#) and [Play Store](#).
- **Simple-CNN: Simple Convolutional Neural Network in C and CUDA:** implementation of a CNN with C and GPU-parallelized for NVidia with CUDA, available [here](#).

RESEARCH

- **Modern CNN-based Object Detectors Systems Applied to Person Detection:** Term paper for computer science graduation, available [here](#).
- **UFPR-Periocular: A Periocular Dataset Collected by Mobile Devices in Unconstrained Scenarios:** [published paper](#) - development of dataset for ocular biometrics containing samples from 1,122 subjects, acquired in 3 sessions by 196 different mobile devices.