

Lucas Romanó Santos

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EXPERIENCE

• FOX Broadcasting Company through X-Team

Remote

Jun. 2021 - Dec. 2021

Senior Software Engineer

- 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

Mar 2019 - Jun 2021

Senior Software Engineer

- 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 auditions and resolution of identified threats.

• PACER

Curitiba, PR - Brazil

Apr 2018 - Apr 2019

Software Engineer

- 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

Jun 2015 - Dec 2016

Linux System Administrator

- 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

Jan. 2014 – Dec. 2018

Federal University of Paraná

• Information Systems Technologist

Curitiba, PR - Brazil

Jan. 2011 – Dec. 2013

Federal Institute of Paraná

• 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.