Luís Peres

EECS student & SW Engineering Intern

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WORK EXPERIENCE

SiDi, Campinas, Brazil— *Software/ML development intern*

Started September 2021| Software Engineering; Machine Learning; Audio Processing

- Global project led by **Samsung**;
- Software Development on **Speech Processing** for a **virtual assistant**;
- Development, training, and testing **Machine Learning** models for Speech Recognition, to be embedded in mobile devices;
- Development of a **KWS dataset** with over 24M words and an **academic paper** detailing the dataset;
- Refactoring and documenting existing code to conform to standards.

EXTRACURRICULAR EXPERIENCE

USP Codelab, USP São Carlos, Brazil — *Mentor*

August 2020 - March 2021 | Software Engineering & Front End Web Development

Technological development stimulation through SWE and Web Development.

- Participated in Web Development "challenges", customizing games in **JavaScript** and a Telegram bot using **NodeJS**;
- Aided the development of a web-scraping project with **Python**;
- Instructed new students in developing a web app and using APIs.

IEEE Student Branch, USP São Carlos, Brazil — *PM*

March 2019 - May 2021 | Software Engineering; Artificial Intelligence; Image Processing

Project Manager: Digital Image Processing with **Artificial Intelligence**

- Helped define project initial goals: A **Neural Network** to color black and white images using **TensorFlow**;
- Led the project and helped new members learn **Python** and **ML**;
- Established deadlines and task assignments to keep the team motivated, learning, and progressing;
- Disclosing the project to freshmen and children: Convolutional NN to identify Pokémon and a Discord chatbot.

Project Member: Web Development

- Contributed to the creation of a website for the group using **ReactJS**;
- Helped other members learn the basics of Web Development.

EDUCATION

B.Sc. Electrical/Electronics Engineering

São Carlos School of Engineering, University of São Paulo (EESC-USP)

2018 - 2024 | GPA 7.8/10.0

São Carlos, Brazil

SKILLS

Python 3

C/C++

C# (prior knowledge)

Java (beginner)

JavaScript (ES6)

HTML5/CSS3

TensorFlow

NodeJS, basic ReactJS

GIT

LANGUAGES

Portuguese (Native)

English (C2)

Spanish (B1)

German (A1)

ACADEMIC RESEARCH

CNPq PIBIT Grant, São Carlos, Brazil — *Undergraduate Researcher*

2016 - 2017 | Telecommunications and 5G technologies

Studying and investigating strategies and approaches for 5G technologies;

- Developed the Project "**Simulator to Evaluate the Performance of Relay Selection Systems in Cognitive Cooperative Networks with Underlay Spectrum Sharing**" - CID, CIDTI, 2017;
- The project yielded an Article, "**Impact of Primary-User Interference on Multiuser Cognitive Relaying Networks**", published in the Journal of Communication and Information Systems, 33rd edition, 2017;
- "**Impacto da Interferência da Rede Primária em Redes Cooperativas e Cognitivas Multiusuário do Tipo Underlay**", XXXV SBrT, 2017.

VOLUNTEERING

Projeto Pontinha, São Carlos, Brazil — *English Teacher*

2018 | Education

Teach children through activities and motivation outside the strict conventional methods presented by the school system.

- Taught English at a public middle school in São Carlos for one semester.

Rotaract, São Carlos, Brazil — *Volunteer*

2016 | Philanthropy

Community services, leadership development, and social well-being improvement.

- Actively participated in community events and resource donation initiatives.

CPCEx, São Carlos, Brazil — *Mathematics Teacher*

August 2015 - November 2015 | Education

A community pre-college prep course to help public school students improve their chances of attending the most competitive universities in Brazil.

- Taught Mathematics for one semester.

INTERESTS

Quantum Computing
Software Engineering
Hardware Engineering
Web Development
Artificial Intelligence
Image Processing
Computer Vision
Data Science

OPEN SOURCE CONTRIBUTION

Circuit Sandbox

A Simulator developed at MIT for the EdX platform, written entirely in JavaScript.
Automated translation from EN-US to PT-BR using JavaScript file manipulation.

EVENTS

CERN Webfest Hackathon 2021
SIEEL 2021
SEMCOMP 2021
B2W Programming Contest 2020
SEMCOMP 2020
SEMCOMP 2019
SIEEL 2019
SEA 2017
SIEEL 2015
SBPC 2015