Vinicius Avena

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EDUCATION

Federal University of Rio de Janeiro Rio de Janeiro, Brazil
Bachelor of Science in Electronics and Computer Engineering *Mar. 2019 – May 2024*
Cumulative score: 8.5/10

Polytechnic University of Madrid Madrid, Spain
Visiting student at the School of Computer Systems in Master's level courses *Sep. 2022 – June 2023*

EXPERIENCE

Software Engineering Intern Sep. 2022 – Sep. 2023
Agiliza Pro *Remote*

- Developed a series of data gathering and web scraping automations that collected over 600,000 lawsuits from various Brazilian law court systems
- Developed a database and a Django-based backend API to consume the collected data
- Employed multithreading, cloud computing and containerization for efficient and prompt scheduled tasks for updating and searching new legal cases

Research Assistant Sep. 2022 – Dec. 2022
Polytechnic University of Madrid *Madrid, Spain*

- Assisted the Group on Acoustics and Multimedia Applications (GAMMA) on sound signal processing
- Developed Python code for sound source spatial localization and performed experiments to evaluate the performance of the algorithms

Data Analyst Intern Mar. 2022 – Aug. 2022
Nokia *Rio de Janeiro, Brazil*

- Worked in the Advanced Consulting Services team, performing data analysis, creating and evaluating machine learning models, developing ETL pipelines, and creating data visualization dashboards
- Developed an algorithm that uses technical information to identify the category of devices connected to the network

Project Consultant Sep. 2020 – Mar. 2022
Fluxo Consutltoria (Junior Enterprise) *Rio de Janeiro, Brazil*

- Developed mobile applications and web systems, using React, React Native and NextJS
- Developed backend APIs using Django and Flask frameworks, implementing features such as geolocation and payments using PIX

PROJECTS

App Catadores | *Python, Flask, React, React Native, Git* Jan. 2021 – Mar. 2022

- Developed a full-stack web application using with Flask serving a REST API with React as the frontend, and React Native as mobile. Enabling users to request recycling cooperatives to pick up recyclable materials from their homes
- Designed a user wallet system for payment processing and integrated the Brazilian's payment method PIX

Portuflash | *Python, Flask, React, React Native, Git* Aug. 2023 – Present

- Developed a Portuguese's vocabulary Flashcard web application
- Integrated speech synthesis for pronunciation of words and phrases in Portuguese

TECHNICAL SKILLS

Programming Languages: Python, JavaScript, Java, C
Frameworks: Django, Flask, FastAPI, React, React Native, Android Studio
Developer Tools: Git, Docker, Google Cloud Platform
Libraries: Pandas, NumPy, Selenium, PySpark
Data Engineering: Spark, NiFi, Hadoop, LogStash

CERTIFICATES

Microsoft Azure AI Fundamentals
Microsoft Azure Data Fundamentals
Microsoft Azure Fundamentals