William Suzuki - Software Engineer

Python Developer with 3+ years of experience in back-end, data engineering, and machine-learning projects. Creating value for colleagues and projects in large companies to start-ups ranging from insurance, prop-tech, and cryptographic security.

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- Brazil

Work Experience:

LG Electronics, Santa Clara - <u>US</u> (remote) | Software Engineer | 02/2022 - Present

- Implementing the IEEE Standard 1609.2.1, which specifies a Vehicular Public Key Infrastructure (VPKI). In the back-end, I use Python with Flask-RESTful.
- I also need to implement and call C programs from Python using ctype, to deal with ASN (Abstract Syntax Notation) encoding.
- Knowledge of cryptography: AES, Elliptic Curves, Public Key cryptography, hashing. And use pytest and makefiles to keep the code always in a working state.

LG Electronics, Santa Clara - <u>US</u> (remote) | Data Scientist | 10/2021 - 01/2022

- Responsible for research and implementation of misbehavior detection models and anomaly function generation for vehicular sensor and position data. Tech-stack: Python, Pandas, pymongo, mongosh, plotly, bash, tmux.
- One of the main authors of the paper "Anomaly Modeling for Misbehavior Detection from V2V Basic Safety Messages", submitted to IEEE Transactions in Vehicular Technology. This research relies on domain knowledge in V2X, kinematic laws applied to vehicles, anomaly detection and machine learning.

Tabas Real Estate Technology, São Paulo - Brazil (remote) | Data Engineer | 05/2021 - 09/2021

- Responsible for building web scrapers of major Brazilian Real Estate websites, I used selenium and python.
- Maintain routine crontab jobs, for internal data transformation and web scrapers. Bash, crontab, vim, tmux.
- Built Real Estate rental pricing models. I implemented an adapted KNN, GAM, xgboost and random forests.
- ch-stack: bash, crontab, tmux, vim, bash scripting, pandas, gspread-pandas, pytest, sklearn, pytest, streamlit.
- Responsible for implementing Airflow in GCP and migrating jobs from crontab.

Tokio Marine Insurance Company, São Paulo - Brazil | Data Scientist | 02/2020 - 04/2021

- Implemented a clustering method using Python, k-means, Gaussian Mixture Models for grouping ZIP codes, the groupings would be used as categorical variables for the insurance price model (GLM). Visualizations were made using Bokeh.
- Automation of weekly reports that was done manually involving outlook and excel. I used pywin32, openpyxl and pandas for excel manipulation.
- Data preparation, feature engineering for pricing and probability of client churn. I used Vaex, MongoDB, pymongo, pyodbc, SQLServer, psycopg2, AWS Redshift.
- Advocated and implemented a POC of Airflow at the department.