## **HEITOR CHANG**

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#### PROFESSIONAL EXPERIENCE

#### MEDIAFLY, INC., CHICAGO, IL (REMOTE)

Senior Software Engineer, Data and Client Squad

Aug. 2022 - Feb. 2023

- Developed Kotlin code to expand the back-end customer integration with Salesforce's API to enable the creation of custom objects holding metadata.
- Improved the Python video call processing pipeline to filter out unwanted blocks of silence.
- Corrected multiple occurrences of temporary files not being cleared in the Python pipeline code.

# TEMPO OK TECNOLOGIA EM METEOROLOGIA LTD., SÃO PAULO, SP

Senior Full-Stack Developer

June 2020 - Aug. 2022

- Built and administered the public-facing website with Django, including custom user management and authentication with a JWT extension.
- Architected a PostgreSQL database in Google Cloud Platform to store meteorological observation and forecast time series at client-supplied locations and government-operated stations.
- Built FastAPI endpoints to communicate with a PostgreSQL database using Google Cloud Functions and Cloud Run, leveraging Docker containers and Bitbucket's Continuous Deployment pipeline.
- Created a geospatial dashboard containing satellite imagery overlays computed from NASA's scientific data and weather stations' historical data, obtained by accessing their public APIs.
- Created a hydroelectric energy forecasting dashboard containing Google Maps and Apache ECharts widgets in Vue.js and the Vuetify Material Design front-end framework.

# PONTUAL EXPORT & IMPORT LTD., SÃO PAULO, SP

Full-Stack Developer

Jan. 2014 - June 2020

- Used MA (Moving Average) indicators in a Django and Python project to predict the demand for 600 products and calculate appropriate amounts for restocking.
- Prepared sales forecasts and summarized business-critical statistics in a Django app.
- Created a REST API with the Slim micro framework in PHP to be consumed by a React app that rendered the company's website.
- Visualized historical sales with NumPy and Pandas, reporting totals and outliers for each product.
- Created a Single-Page App with AngularJS and Firebase to organize product reservations by clients and their assigned salesperson in real-time.

#### **EDUCATION**

### NEW YORK UNIVERSITY, NEW YORK, NY

M.S. in Financial Mathematics, 2009

## STANFORD UNIVERSITY, STANFORD, CA

M.S. in Materials Science and Engineering, 2007

B.S. in Mathematical and Computational Sciences, 2005

### **SKILLS**

- Fluent in **English** and **Portuguese**.
- Rudimentary knowledge of Mandarin, Italian, French, Spanish, and Greek.
- Advanced knowledge of Python, JavaScript, and HTML.
- Intermediate knowledge of **PostgreSQL** and **CSS**.
- Basic knowledge of **Scheme**, **Java**, and **Kotlin**.