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English (Fluent), Portuguese (Native)

French and Italian (Basic)

Summary

BSc in Physics passionate about learning, sharing knowledge and helping others, trying to break into software development, with some experience in SQL-like scripting involving financial data for auditing.

Programming Skills

- **Languages:** Python, Go, HTML5, CSS3, JavaScript (Front-end), ACL, Matlab.
- **Python libraries:** Pandas, SQLAlchemy, Basemap, cmd, curses.
- **Databases:** MySQL.
- **Misc:** Github, Latex, Vim.

Projects

- **GoKana:** Program to practice identifying hiragana and katakana characters. Written in Go **Code**
- **KanaPractice:** Program to practice identifying hiragana and katakana characters. Written in Python. **Code**
- **PyHashChain:** CLI to create transactions, hash them, and save the hash in a block file. Built with python cmd module. **Code**
- **London Map visualisation:** Geographic plot practice project using London postcodes data. Python, Pandas, Basemap. **Code**
- **Python CRUD:** Desktop app, with users and authentication, built with SQLAlchemy, Tkinter, hashlib, MySQL. **Code**
- **Blind Walk:** Simple game with collision mechanics built with HTML5, CSS3 and vanilla JavaScript. **Code**

Experience

- Feb. 2019 - Present: **Graduate Data Analyst at Landbay** London, UK
- Dec. 2017 - Mar. 2018: **Trainee Advisory Consultant at Ernst & Young** São Paulo, Brazil
 - Helped auditors query financial data, up to 200 million transactions, using ACL and MS Excel.
 - Produced detailed reports for the audit team on selected sensible queries.
 - Wrote and maintained SQL-like scripts.
 - Developed the standard format of data with which prototypic MS Excel extension could be effectively used.
- Aug. 2017 - Dec. 2017: **Teaching Assistant of Physics IV at University of São Paulo** São Paulo, Brazil
 - Gave weekly lectures on Optics, Special Relativity, and Covariant Formulation of Electromagnetism to 100 students.
 - Graded problem sets, and conducted weekly recitation sessions.
- Aug. 2017 - Dec. 2017: **Self-employed Private Math tutor** São Paulo, Brazil
 - Gave weekly math tutoring sessions to a 10 year old.

Education

- Nov. 2018 - Dec. 2018: **Deep Learning Specialisation** deeplearning.ai, Coursera
- Sep. 2018 - Oct. 2018: **Machine Learning with TensorFlow on GCP Specialisation** Google Cloud, Coursera
- July 2017 - July 2018: **MSc in Theoretical Physics; Dropped out after 1 year** University of São Paulo, Brazil
 - **Relevant Coursework:** Quantum Information.
 - **Research:** Research on Category Theory/Categorical QFT funded by CNPq.
- Feb. 2014 - July 2017: **BSc in Physics; 8.1 (Equiv. UK First class honours)** University of São Paulo, Brazil
 - **Relevant Coursework:** Data Analysis, Statistics, Calculus.
 - **Research:** Introductory research on String Theory funded by FAPESP.
- **MOOC's**
 - **Linkedin Learning (Lynda):** JavaScript Essential Training, MySQL Essential Training, Advanced SQL for Data Scientists, Apache Spark Essential Training, Learning Docker.
 - **Datacamp:** Introduction to PySpark, Supervised Learning with scikit-learn, Importing Data in Python (Part 2), Data Visualisation with Seaborn.
 - **Alura:** HTML5 & CSS3 I, HTML5 & CSS3 II, Excel I, Excel II.

Volunteering

- July 2016 - July 2017: **Volunteer Physics Teacher** ETEC Jaraguá, Brazil
 - Gave weekly lectures on high school physics to students of ETEC Jaraguá, aiming to improve results on the Public School's Brazilian Olympics of Physics (OBFEP).

Awards

- Aug. 2018: **International Science and Engineering Excellence Award** Queen Mary's University of London, UK
 - "To reward academic achievement and help attract the brightest and best students from overseas."