

Poliana Yukari Sato Morishigue

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Career Summary

Python, C++ and Microsoft SQL Certified Developer. Deployed back-end solutions for a Fintech's securities trading platform, using Object Oriented programming. Implemented the MVC pattern in building APIs, which optimised the number of functions deployed at AWS Lambda. Created RESTful APIs to providing solutions for the business logic and dashboard functions for i8labs.io Fintech. Reshaped databases to secure data integrity and reduce operational risks in production stage. Skilled in AWS Serverless services, Azure DevOps and GitHub, currently a MSc Data Science and Analytics student at University of Hertfordshire.

Education

MSc – University of Hertfordshire
01/2020 – 09/2020

Data Science and Analytics with Placement Year

Key modules: Machine Learning and Neural Networks, Foundations of Data Science, Data Mining and Applied Data Science and Analytics. Program based on techniques for data visualization, data analysis and data mining, besides extensive practical sessions.

Post-Graduate Certificate – College of Administration and Business – Sao Paulo/Brazil
04/2016 – 06/2017

Financial Engineering

Key modules: Applied Statistics for Finance, Applied Quantitative Methods for Finance, Financial Calculus and Statistics, Derivatives. Quantitative-oriented program with focus on statistics with use of R tool in simple and multivariate regressions.

Post Graduate project: *Impact of Economic Features on Transportation Companies' Revenues*. Achieved grade 8.5 out of 10.0, coursework with practical application on my previous work and selected for a sponsorship of the University's tuition fees by Employer.

BA – University of Sao Caetano do Sul/Brazil
01/2005 – 01/2009

Social Communication

Key modules: Sociology, Communication Theory, Political Theory, Philosophy, Anthropology.

IT Certificates

Python

PCEP – Certified Entry-Level Python, PCAP – Certified Associate in Python (Python Institute)

SQL

Microsoft Exam 761 – Querying Data with Transact-SQL

C++

CPA – C++ Certified Associate Programmer, CPP – C++ Certified Professional Programmer (C++ Institute)

Work Experience

Jan 2020 - Present AI LEAD - i8labs.io Fintech

- Developed algorithms in Python to providing business logic solutions for a securities trading platform, with functionalities such as portfolio analysis, payments dashboard and securities recommendation.
- Created RESTful APIs for user's authentication login, with functionalities including email and phone validation through security keys, password encryption and password reset, user's insertion, user's information update, using flask, flask-login, SendGrid and Twilio Python libraries.
- Improved the security rules of internal AWS Lambda functions by creating environmental variables for database connections and internal function invocations throughout AWS.
- Reshaped tables in relational databases, creating foreign keys to maintain data integrity, applying good design patterns, using MySQL.
- Organized and documented RESTful APIs in order to comply with best practices and facilitate front-end implementation, using Swagger tool.

Jan 2015 - Nov 2019 **FINANCIAL ANALYST, Asset Management – Caixa Economica Federal Bank**

- Processed large datasets with use of R statistical tool and designed predictive financial models using Excel, in order to evaluate companies' stocks price targets and, recommended buy position of ECOR3 and RAIL3 stocks, with an outperformance of 51% and 19%, respectively, within a 6-month time frame.
 - Traded stocks using Bloomberg platform and performed portfolio rebalance and asset allocation strategies for the funds under management.
 - Performed cash position reconciliation of investment funds and processed buy/sell orders to prepare funds for the next trading day.
 - Adjusted the road traffic growth estimates of a highway operated by a Concessionary, which led to a 30% upside in its share value under a restructuring process.
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Skills

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|-----------------------|---|
| • Adaptability | • Foundations of Data Science: Linear Algebra, Singular Value Decomposition, Probability and Statistics. |
| • Communication | • Machine Learning Techniques: K-means, KNN, Support Vector Machine, Principal Component Analysis, Gradient Optimization. |
| • Analytical thinking | • Neural Networks and Deep Learning |
| • Active Listening | • R statistical tool |
| • Collaborative | • MATLAB |
| • Visual thinking | • TensorFlow |
| • Organized | • Python |
| • Problem solving | • C++ |
| • Creativity | • AWS Serverless |
| | • Azure DevOps Repository |
| | • GitHub |
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Other / Personal Details

Interests include: Football, Music, playing guitar, eating out, hiking, movies.

References

Available at request.