Gabriel Alves Kuabara

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Education

BS in Computer Science   Jan 2020 - Aug 2024

University of São Paulo (USP) - São Carlos   CGPA: 9.0/10 - 24th out of 116

Work Experience

Software Engineer at Amazon   Jul 2025 - present

- Designed and developed Fintech Brazil projects about tax bookkeeping, federal reports automation, and Brazilian tax reform.
- Participated in the design and implemented requirements from the technical notes on tax reform in various systems among FintechBR teams.
- Updated infrastructure and versioning issues in AWS Lambda for multiple services from various teams.

Data Engineer at Serasa Experian   Feb 2023 - Jun 2025

- Designed and implemented **scalable ETL pipelines**, streamlining **data collection, transformation, and storage** for monitoring machine learning models used in credit scoring and fraud detection.
- Automated analytics software to **report and visualization generation for backtesting models**, reducing manual effort by **95%** and enabling real-time insights to support analysts and sales teams in business decision-making.
- Integrated API data across multiple company software systems to **enhance interoperability, optimize resource utilization, and extend functionality.**
- Optimized Python-based **data processing pipelines and SQL Server queries**, improving execution speed by **40%** across multiple systems.
- Developed and deployed **complex web scraping scripts**, automating upload and data extraction from multiple websites to enhance internal datasets.
- Technologies: Python, SQL, Django, AWS (S3, Lambda, Glue, EC2, Athena), Apache Airflow, Tableau, PHP, JavaScript.

Projects & Research

Scientific Researcher at USP   Mar 2022 - Feb 2023

- Developed **machine learning models** to predict infant behavior using **EEG data**, enhancing the understanding of brain activity patterns.
- Conducted **data-driven analysis** on PTSD patients, identifying traumatic stimulus patterns through encephalography data.
- Improved machine learning unsupervised model by optimizing feature selection and leveraging statistical methods for data preprocessing.
- Technologies: Python, Scikit-learn, Pandas, NumPy, MATLAB.

Automatic Door Lock System   Mar 2023 - Jul 2023

- Engineered a facial recognition-based automatic door lock, integrating **computer vision and microprocessor-controlled mechanisms**.
- Implemented a real-time image processing pipeline using **Haar Cascade Classifier** for face detection and a neural network (VGGFace16) with fine-tuning for face recognition.
- Optimized **model performance using k-fold cross-validation and early stopping**, achieving high recognition accuracy.
- Technologies: Python, TensorFlow, Pandas, Flask, Numpy, MatPlotLib, Arduino, Raspberry Pi**.**

Teacher Assistant at USP (Algorithms & Data Structures)   Aug 2021 - Jan 2022

- Provided hands-on coding mentorship and classes to over **100 students**, conducting **code reviews, debugging sessions, and problem-solving projects**.
- Assisted the professor in delivering lectures and lab sessions on data structures, recursion, algorithm analysis, asymptotic notation, sorting algorithms, and hashing.
- Taught students about **code quality, project structure,** and **debugging skills**, and increased student performance.

Technical Skills

Programming Languages: Python, Java, SQL, C++, C, JavaScript, TypeScript, PHP
Frameworks and tools: AWS (S3, Lambda, CDK, Redshift, Glue, EC2), Flask, Django, React, Airflow
Data Science: ETL, ELT, Pandas, Spark, Data Warehousing, Data Lake, TensorFlow, Pytorch, Scikit-learn, Matplotlib, Seaborn
Languages: Portuguese (Native), English (Fluent)