Guile Vieira
Software Engineering

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Education

École Polytechnique de Paris
(Sep 2021 – Aug 2024)

MSc in Computer Science and Applied Mathematics — *Palaiseau, France*

Excellence Scholarship Fulgence Bienvenüe in recognition of academic results. — GPA: 3.96 / 4.00

Relevant Courses: OOP in Java, Probabilities, Statistics, Numerical Analysis, Real and Complex Analysis, Differential Calculus.

Aeronautic Institute of Technology
(Jan 2019 – Dec 2020)

Mechanical Aeronautical Engineering — *São José dos Campos, Brazil*

#2 Engineering School in Brazil by ENADE — GPA: 4.00 / 4.00

Relevant Courses: Introduction to Computer Science in C, Data Structures and Algorithms, Computational Mathematics, Calculus I to IV, Ordinary and Partial Differential Equations, Metric Spaces.

Experiences

Fly Skyler [flyskyler.com]
(July 2022 – present)

Full Stack Engineer — *São Paulo, Brazil*

- Extended and maintained the internal system of over 100K lines of code.
- Steered the migration to a new platform impacting over 20 employees.
- Developed key features that help manage over 10K dollars.

Cuukin [cuukin.herokuapp.com]
(Jan 2021 - Jun 2021)

Product Management and Data Science intern — *London, United Kingdom*

- Applied Machine Learning and NLP classifiers on a database of more than 5K web-scraped recipes.
- Constructed 2 data driven applications for the ML models: a recommendation system and classification interface.

Projects

Backdoor Detection on Transformer Language Models
(Jun 2022 - present)

Scientific research project — *Paris, France*

- Examined and experimented with backdoor attacks detection and mitigation algorithms and models.
- Inspected and implemented transformer models, focusing on GPT.
- Aim to extend current backdoor detection approaches to NLP transformers deep neural networks.

Shared Count
(Jan 2022 - May 2022)

Front End Developer — *Paris, France*

- Wrote over 1000 lines of React Native code for this multi-platform app that handles low-latency web-sockets.
- Organized and coded the project, leading the team of 3 engineers.

Voca [voca.guilevieiram.dev]
(Oct 2021 - Feb 2022)

Full Stack Engineer, Project Manager — *Paris, France*

- Conceptualized and developed this language learning application of more than 40K lines of code.
- Adapted state of the art NLP encoders to more than 3 languages.
- Created a fully tested MCV interface with Flask that serves a React client.

Skills and Languages

Python	SQL	TypeScript / JavaScript	AWS	Others
Django, Flask, Pandas, NumPy, Scikit Learn, Torch, Spacy	*PostgreSQL, SQL Workbench*	*React, React Native, Redux, Vue*	*RDS Databases, Lambda*	*C, Java, Bash, Linux*

English	French	Spanish	Portuguese
Fluent (C2)	*Fluent (C2)*	*Intermediate*	*Native*
Cambridge CPE: 218 / 230	TCF: 632 / 700		