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Education

École Polytechnique de Paris

(Sep 2021 - Aug 2024)

MSc in Computer Science

Palaiseau, France

GPA 3.95/4.00 Excellence Scholarship Fulgence Bienvenüe in recognition of academic results.

Rank 48/438

Relevant Courses: OOP in Java, Data Analysis in C++, Networking in C, Algorithms, 3D Graphics Programming, Probabilities, Statistics, Markov Chains & Martingales, Optimization, Control, Numerical & Complex Analysis.

Aeronautic Institute of Technology (ITA)

(Jan 2019 – Dec 2020)

Mechanical Aeronautical Engineering

São José dos Campos, Brazil

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

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

Squarepoint Capital

(Jun 2023 - Sept 2023)

Quantitative Development Intern

Paris, France

- Revamped the vol data pipeline, achieving 5x faster processing with 8x less resources, resulting in a 40x improvement.
- Optimized the fitting process, achieving <50ms fits, with 60% of that time attributed to an efficient C++ engine call.
- Published a Python concurrent data library, surpassing multithreading with 22x faster startup and 3x overall speed.
- Crafted data applications being assessed for deployment by senior engineers from across 3 different teams.

Fly Skyler [flyskyler.com]

(July 2022 - Apr 2023)

Full Stack Engineer

São Paulo, Brazil

- Extended and maintained the internal system of 100K+ lines of code, developing features that help manage \$10K+.
- Developed over 10 data analysis dashboards in PowerBI, impacting decisions of the financial and management teams.
- Steered the company's migration to a new platform impacting more than 20 employees.

Cuukin [Instagram @cuukin.app]

(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 in Python.

Projects

Backdoor Detection on Transformer Language Models [github.com/guilevieiram/psc]

(Jun 2022 - Jun 2023)

Research project

Paris, France

- Trained over 4000 custom GPT models, achieving an accuracy of 99.7% over a distributed network of 100 servers.
- Implemented 4 types of backdoor attacks on that AI, scoring an infection rate of 99.2% while keeping the accuracy at 94%.
- Synthesized a black-box Meta-neural network that classified the trojan attacks with more than 77% precision.

Voca [voca.guilevieiram.dev]

(Oct 2021 - Feb 2022)

Full Stack Engineer

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 to create a custom user experience.

Skills and Languages

Python (Pandas, Scikit Learn, Torch, Spacy, Django, Flask)
JavaScript/TypeScript (React, React Native, Redux, Vue)

Cambridge CPE: 218 / 230 - Fluent (C2)

TCF: 632 / 700 - Fluent (C2)

English French

C - C++ - Java - Haskell - SQL

AWS - Bash - Linux - PowerBl