HENRIQUE LOPES

Computer Scientist

CV

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SUMMARY

Recently graduated in Computer Science from the Federal University of Viçosa (UFV), with a background in Machine Learning and Software development. I have experience with technologies such as PyTorch, Python, Android SDK, Flutter, SQL, among others. I am looking to apply and enhance my skills through practical challenges and innovative projects.

PROFESSIONAL EXPERIENCE

PERSONAL PROJECTS
2024 - PRESENT

- Developed mobile applications using Flutter/Dart and/or pure Java, including a virtual bookshelf and a CRM app.
- Created an AI using computer vision to translate letters and words from Brazilian Sign Language (LIBRAS) to Portuguese in real time.
- For my thesis, collaborated with DNIT and developed a GRU model to predict bridge degradation.
- Completed a practical ABAP and SAP course offered by Seidor, simulating real-world SAP development scenarios.

INTERNSHIP - Legislative Assembly of Minas Gerais (ALMG)
02/2025 - 07/2025

- Performed data analysis to support institutional reports
- Developed automation tools using Python scripting
- Extracted and processed data from web sources

SCIENTIFIC INITIATION (SI)
2023-2024

- I worked with Machine Learning, Python, and GPUs
- Created a publicly usable C# plugin for Rhinoceros, focused on architectural optimization
- Optimized data generation with heuristic techniques

TECHNICAL SKILLS

Programming Languages:
- *Python, C/C++, C#, JavaScript, Java, Dart, ABAP*

Frameworks & Libraries
- *Flutter, SQL, SQLite, Pytorch, React, Sklearn, Pandas, Numpy*

Tools & Technologies:
- *Git, Docker, Visual Studio, Android Studio, Jupyter, SAP, Fiori*

LANGUAGES

- **Portuguese:** Native
- **English:** Advanced
- **Spanish:** Intermediate