CONTACT INFORMATION

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Contagem, Minas Gerais, Brazil

ADDITIONAL EDUCATION

- Introduction to Computer Science (CS50X) - Harvard University
- Introduction to Programming with Python (CS50P) - Harvard University
- Python for Data Science - Udemy

HARD SKILLS

- Python, C
- Algorithms, Data Structures
- Web Development (HTML, CSS, Flask e JavaScript)
- Databases, SQL
- Cybersecurity, Debug
- Git, GitHub
- Numpy, Pandas, Matplotlib, Seaborn, Scikit-Learn
- MS Excel
- Power BI
- MATLAB

LANGUAGES

- Portuguese (Native Language)
- English (B2)
- Spanish (A2)

SOFT SKILLS

- Lifelong learning
- Team work
- Time and project management
- Problem-solving

AWARDS

Academic Excellence in Computer Network Installation and Repair Course

MATHEUS GODINHO MAGALHÃES

MECHANICAL ENGINEERING STUDENT

OBJECTIVE

- Working in software development, data engineering, or artificial intelligence, leveraging expertise in Python, machine learning, and the integration of emerging technologies.

PROFESSIONAL EXPERIENCE

Stellantis, Betim, Brazil - Company responsible for vehicle manufacturing
July 2023 - February 2024

- Worked in the Research and Development department, focusing on new technologies for predictive maintenance. My work encompassed the intersections of mechanical and computational fields, with emphasis on the SAVISION project, with expertise in: Computer Vision; Artificial Intelligence; Machine Learning; IoT; Python; JSON; MQTT; Arduino; C#; 3D Modeling (Inventor and SolidWorks); 3D Printing; SQL.

Kot Engenharia, Belo Horizonte, Brazil - Engineering consulting company
February 2023 - June 2023

- Responsible for the structural analysis of steel structures, involving numerical modeling, structural calculations, verification of metallic structures, and preparation of technical reports.

White Martins, Contagem, Brazil - Industrial and medical gases company in Latin America
November 2022 - February 2023

- Responsible for planning, scheduling, and controlling preventive and corrective maintenance activities.

Fórmula Tesla UFMG, Belo Horizonte, Brazil - Competition team of UFMG's School of Engineering
November 2020 - April 2022

- Responsible for the development of aerodynamic devices through computational modeling and fluid dynamics simulations of components.

EDUCATION

Universidade Federal de Minas Gerais (UFMG), Belo Horizonte, Brazil
Started in August 2019

- Bachelor's in Mechanical Engineering – Expected graduation in July 2025

KEY PROJECTS

MGM SERVICES

- A web platform designed to connect service providers with clients in a practical and efficient manner. The application features secure user authentication, service scheduling and management, and a rating system that allows clients to provide feedback on services received. The backend was developed in Python using the Flask framework, while SQLite was employed to manage the database. The frontend was built with HTML, CSS, and Bootstrap, creating a responsive and user-friendly interface. Additionally, cybersecurity best practices were applied to ensure the protection of sensitive data, providing a reliable experience for users and service providers.

SAVISION

- Software that utilizes Computer Vision, Machine Learning, and IoT to monitor the wear of traction chains in overhead conveyors in real time. The system automatically detects failures, counts chain links, measures size, speed, and traveled distance, and generates detailed reports with key indicators to optimize predictive maintenance and improve operational efficiency.