

Arthur Henrique Neves Dias

Personal details

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Profile

I am a Computer Science undergraduate interested in Data Engineering, Cyber Security, and Artificial Intelligence. As a developer, I have focused my efforts on optimizing projects and cyber operational.

Languages

Portuguese	Fluent
English	Fluent

Education

Jan 2021 - Jan 2026	Bs, Computer Science Pontifícia Universidade Católica de Minas Gerais
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Work Experiences

Mar 2025 - Present	Cybersecurity Operations Intern Wabtec Corporation I work in the field of cybersecurity with a focus on investigative activities (Threat Hunting), incident response, and continuous improvement of operational processes. In parallel, I develop APIs and automation solutions aimed at enhancing the operational efficiency of the security team, with an emphasis on report generation, system integration, and the creation of custom dashboards to support decision-making. <ul style="list-style-type: none">• Threat Hunting, monitoring, and analysis of security alerts;• Development of APIs to automate repetitive tasks and data collection;• Creation of interactive dashboards for security metrics visualization;• Support in optimizing workflows and management reports;• Integration of SIEM, SOAR, and other security platforms.• Python, PowerBI, KQL, Microsoft Azure, Git, SecOps, Data Structures
Jun 2024	Pontifícia Universidade Católica de Minas Gerais Scientific Research

- Dedicated to the study and development of neural networks for network intrusion detection and parallel blockchain using oneAPI. This project aims to explore the capabilities of oneAPI, an Intel initiative designed to unify programming across various types of hardware, including CPUs, GPUs, FPGAs, and others, through a comprehensive set of tools and libraries.
- Python, C, C++, DPC++, Git, Machine Learning

May 2023 - Aug 2023

Data Base Administrator Intern
Tribunal de Contas do Estado de Minas Gerais

- I worked on the creation and optimization of SQL queries for reporting, improving data extraction efficiency. I collaborated in the maintenance of databases and suggested query improvements to enhance system performance. Additionally, I contributed to the technical documentation of the developed solutions.
- Oracle, SQL, PowerBI, Data Flows
- Agile Methodologies

Projects

Aug 2024 - Present

Parallel BlockChain
Optimizing Blockchain Performance with DPC++

The project is a Bachelor's Thesis (TCC) focused on applying parallel computing techniques to improve the performance of blockchain networks. Using the DPC++ (Data Parallel C++) language, the goal is to optimize the processing of transactions and blocks, enhancing scalability and operational efficiency. The project explores innovative solutions to overcome latency and throughput challenges, aiming to create a more agile blockchain infrastructure capable of handling high-volume demands, while also contributing to the advancement of distributed technologies.

Aug 2024 - Present

SmartInvest

SmartInvest is an ongoing project aimed at creating an intelligent platform for investment portfolio management. Built with the Spring Boot framework, the system allows users to register their portfolios, track investment performance, and use tools for risk and return optimization. The project also includes features such as diversification calculation, financial scenario simulations, and personalized alerts, helping users make more informed decisions. SmartInvest aims to be a practical tool for investors looking to maximize gains and minimize risks.

Jan 2024 - Jun 2024

CNN: A CNN for Accurate Lung Cancer Detection in CT Scans

This project utilizes a Convolutional Neural Network (CNN) for the accurate detection of lung cancer in computed tomography (CT) scans. The goal is to develop an artificial intelligence solution capable of analyzing medical images and identifying potential lung tumors quickly and effectively, assisting healthcare professionals in early diagnosis and improving the chances of successful treatment.

Certificates

Oct 2024

AWS Academy Graduate - AWS Academy Cloud Foundations

Sep 2024

Endpoint Security

Sep 2024	Fundamentals of Software Development by Microsoft and LinkedIn
Sep 2024	GitHub Actions
May 2024	Exam Preparation Course: Oracle Java SE 8 Programmer I 1Z0-808
Apr 2024	Industry 4.0: Data Science
Aug 2023	Red Hat System Administration II (RH134)
	Data Base SQL - Udemy