

# ARTHUR MARQUES AZEVEDO

## BACK-END DEVELOPER/ FULL-STACK | BLOCKCHAIN

Ilhéus-BA | +55 73 99148-1220 | [arthurmarquesazevedo@gmail.com](mailto:arthurmarquesazevedo@gmail.com) | [github.com/Arthur1220](https://github.com/Arthur1220) | [linkedin.com/in/azevedo-arthur](https://linkedin.com/in/azevedo-arthur)

---

### PROFESSIONAL SUMMARY

Recent Computer Science graduate and Back-end/Full-stack Developer with a focus on Python + Django and Vue.js, and experience in projects involving blockchain systems (Solidity, Hardhat) and REST API automation. I build tested, containerized, and Git-versioned applications, applying agile practices and a security-first mindset. I am seeking to contribute to the development of secure, scalable, and high-impact software solutions.

---

### TECHNICAL SKILLS

Languages: Python, JavaScript, Solidity, SQL, C/C++  
Frameworks: Django, FastAPI, Vue.js, Node.js, Hardhat  
Cloud & DevOps: Docker, GitHub Actions, Linux (bash)  
Databases: PostgreSQL, MySQL, SQLite, MongoDB, ORMs  
Blockchain: Solidity, Hardhat, OpenZeppelin (L1/L2 Ethereum)  
Tools: Git, Postman, VS Code, Intel RealSense

---

### PROJECTS & EXPERIENCE

#### Animal Traceability System with Blockchain (Thesis) | Mar 2025 – Jul 2025

**Technologies:** Django, Vue.js, PostgreSQL, Solidity, Hardhat, Polygon, Docker, Pytest

Developed and architected a full-stack platform for immutable traceability in agribusiness, solving the problem of fraud in centralized systems.

The system uses a hybrid architecture, recording a hash of critical events (vaccination, transport, etc.) on a layer-2 blockchain (Polygon), while detailed data is maintained in a PostgreSQL database.

Implemented on-chain logic with Solidity smart contracts and the project's main innovation: a custodial wallet architecture in the back-end, which abstracts 100% of Web3 complexity (key management, gas fees) from the end-user, overcoming a major barrier to technology adoption.

Ensured the solution's robustness and security with a test suite that achieved over 95% code coverage on the smart contract and implemented atomic transactions in the back-end (@transaction.atomic) to ensure consistency between on-chain and off-chain data.

#### Freelance | Full-stack Web System

##### Nutritional Requirements Calculator for Sheep and Goats (BRCO)

**Technologies:** Node.js, Express.js, Prisma, Vue.js, Pinia, Docker, AWS EC2, Netlify

Designed and developed a free-access web platform to perform nutritional requirement calculations for sheep and goats, based on national scientific equations from the "BR-CORTE" book.

Built a secure RESTful API with Node.js and Express.js, using the Prisma ORM to manage the database and the json2csv library to implement the CSV report export functionality.

Deployed the application in a real production environment: the back-end was containerized with Docker and deployed on an AWS EC2 instance, while the front-end (Vue.js) was distributed globally via Netlify.

#### **Freelance | Full-stack Web System | Jun 2024 – Aug 2024**

##### **Nutritional Requirements Calculator for Sheep and Goats**

**Technologies:** Django, Vue.js, JWT, Pytest, Docker, AWS EC2

Designed and implemented the platform using Django + Vue to calculate NDT and nutritional requirements for goats/sheep.

Features include JWT authentication, tests using pytest/Unit tests, full CRUD functionality, and PDF reports.

Containerized the stack via Docker Compose and deployed it on AWS EC2, ensuring a reproducible environment.

#### **Technological Initiation Project | UESC – Aug 2023 – Aug 2024**

##### **Weight estimation from 3D image capture in sheep farming**

**Technologies:** Python, Intel RealSense, SQLAlchemy

Developed a Python system that captures 3D images (Intel RealSense) and stores metadata with SQLAlchemy.

Presented at the 30th Scientific Initiation Seminar; automated data collection and pre-processing for future weight regression, enabling future systems.

#### **Technological Initiation Project | UESC – Aug 2022 – Aug 2023**

##### **Diet calculator software for goats/sheep**

Created a desktop application in Python/Tkinter using OOP and NumPy, automating national nutritional formulas.

Presented at the 29th Scientific Initiation Seminar; facilitated diet formulation for researchers.

---

## **EDUCATION**

B.Sc. Computer Science – Universidade Estadual de Santa Cruz (UESC)

2020 – Jul 2025 | GPA 8.3/10

---

## **CERTIFICATIONS & COURSES**

Certificate of Proficiency in English

Crash Course on Python (Google)

Minicurso "Conversando com LLMs" – SINFORM 2024

Minicurso "Power Bi" – SINFORM 2024

MongoDB Complete Guide (Udemy) — 2025

Agile & Scrum Mastery (Udemy) — 2025

---

## **SOFT SKILLS**

Collaboration | Communication | Problem-solving | Security mindset | Self-learning