# HUGO SANTOS RIBEIRO

SOFTWARE ENGINEER
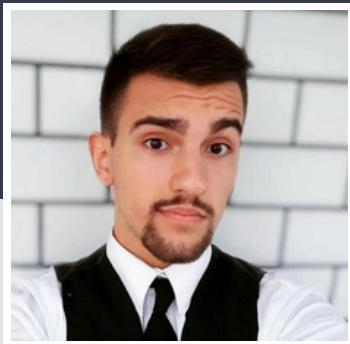
CONTACT

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📍 Aveiro, Portugal

🌐 github.com/xhugodx

in linkedin.com/in/xhugodx

HARD SKILLS

- Python
- Java
- C, C# & C++
- SpringBoot
- Django
- React
- Angular
- Flask
- REST API
- SQL
- Git & Github
- Docker
- NoSQL
- Cassandra
- Redis
- MongoDB
- NEO4j
- InfluxDB
- Pandas
- scikit-learn
- Pickle
- CI/CD
- Junit
- Nagios
- TDD BDD
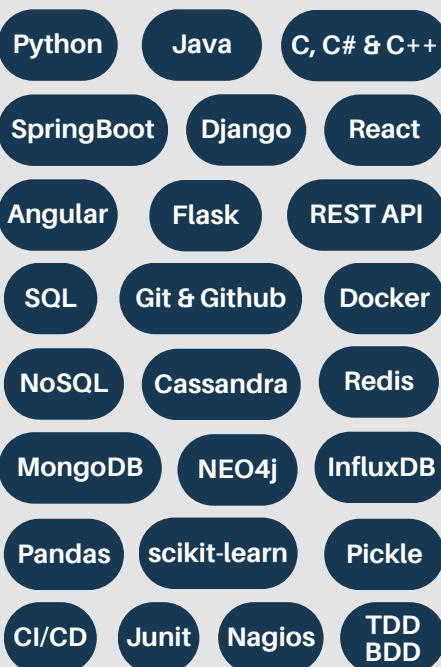
SOFT SKILLS

Teamwork	Communication
Time Management	Organization
Leadership	Problem-Solving
Eye for detail	Adaptability
Critical Thinking	Hard-Working

LANGUAGES

- English (Fluent)
- Portuguese (Native)

PROFILE

I am currently a Software Engineering Masters student at Aveiro, where I developed a strong foundation in programming, software design, and system modeling. I am highly motivated by learning and problem-solving, with a passion for delivering high-quality solutions. Furthermore, I thrive in challenging environments that push me to grow and expand my knowledge.

EDUCATION

B.Sc. Computer Science and Software Eng.
Universidade de Aveiro
2022 - 2025
Grade: 16 / 20

Sciences and Technologies
Colégio de Calvão
2019 - 2022
Grade: 19/20

PROJECTS

AI-DRIVEN Networks - NWDAF （BSc Final Project ）
Grade: 17/20

Designed a scalable MLOps pipeline to integrate real-time machine learning and automation into 5G network operations. The system enables self-optimizing and self-healing functions by continously processing network data. Applied machine-learning to this data allows the detection of network attacks, improving resilience and maintaining service quality.

Python, Data processing, Tensorflow, scikit-learn, Pandas,

Secure File System （Cybersecurity Topics）
Grade: 20/20

Developed a secure document-sharing file system for organizations. Designed a robust authentication mechanism based on session-level verification, hybrid AES-GCM/RSA encryption, and digital signing of communications. Built a complete role-based access control (RBAC) model. Integrated protection mechanisms against eavesdropping, impersonation, manipulation, and replay attacks.

Python, SQL, Encryption, Authentication, Attack Protection, RBAC

Machine Learning Income Predictor （Machine learning Topics）
Grade: 19/20

Built and evaluated models to predict whether an individual earns over $50K/year using the UCI Adult dataset. Applied data preprocessing, such as one-hot encoding and feature scaling, trained Logistic Regression, Decision Tree (XgBoost), and Random Forest models, and assessed performance with cross-validation based on accuracy, precision, recall, and F1 score.

Python, Pandas, scikit-learn, Matplotlib, Seaborn, NumPy, Xgboost