

# Hugo - Juskowiak

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## PROFILE

Junior Engineer specialized in Full Stack Development, Machine Learning and Data Engineering. Experienced in optimizing distributed systems, resource allocation at scale and full stack app development.

## EDUCATION

### Côte d'Azur University

Bidart, France

Master's degree in data science (MBDS MIAGE)

Sep 2024 - Oct 2025

- **Relevant Classes:** Full Stack development, AI, Machine learning, data analysis, big data, AWS, app development

### Imperial University of Hokkaido

Sapporo, Japan

Study Abroad Semester in Science of Information and Engineering

Mar 2024- Aug 2024

- **Relevant Classes:** Project Management, Human Computer Interactions, Algorithms, Quantum Physics

### ESTIA (Superior School of Advanced Industrial Technologies)

Bidart, France

Trilingual master's degree in engineering

Sep 2022- Oct 2025

- **Relevant Classes:** HCI, CAD, project management, robotics, electrical and mechanical engineering

### Touchard Washington High School

Le Mans, France

Foundation Course TSI

Sep 2020 - Jun 2022

- **Relevant Classes:** Engineering, mathematics, physics

## WORK EXPERIENCE

### Sophia Genetics

Bidart, France

Software Development Engineer Intern

April 2025 - Sept 2025

- Designed and deployed a machine learning system (XGBoost, LightGBM, CatBoost, Random Forest) to predict task-level memory usage in bioinformatics pipelines.
- Built scalable ETL/data pipelines (Python, Pandas, Elasticsearch, Azure Blob Storage) for data collection, preprocessing, and feature engineering.
- Implemented context-aware resource prediction (task sequencing, sample/partition metadata) improving accuracy, scalability, and system reliability.
- Optimized distributed computing resource allocation, reducing cloud costs, failures, and execution time through CI/CD (GitLab), version control, and agile workflows.
- Presented the project in front of all the tech teams during a company Tech-Talk session.

### The Guill Corp (Aeronautics)

Anglet, France

Engineering internship (Software development engineer)

Feb 2023 - Apr 2023

- Creation of an interface for the management of machining programming data.
- Self-taught advanced Python using flask, javascript using jquery, SQL, Ajax.
- Self-taught of design process and frontend techniques using figma, HTML, CSS.

### Legrand (Electrical equipment)

Le Mans, France

Industrial Operator

Jul 2022 - Aug 2022

- Working on the production chain, assembling parts and helping other operators.
- Sorting customers returned products to recycle them.
- Helping the management team to organise the stocks.

## EXTRACURRICULAR ACTIVITIES

### Fitness app project (not finished)

Biarritz, France

Full Stack Developer

Jun 2023 - Sep 2023

- Creation of the figma model using the coach requirements.
- Adaptation of the figma model on FlutterFlow.

## SKILLS AND INTERESTS

**Language :** Bilingual | French (native), English (fluent, IELTS certified in 2023), Spanish (B2), Japanese (Notions).

**IT Skills :** Python (Advanced) · SQL (Advanced) · HTML/CSS/JS (Advanced) · Java (Intermediate) · Machine Learning: XGBoost, LightGBM, CatBoost, RF (Intermediate) · Azure (Intermediate) · AWS (Intermediate) · MongoDB (Intermediate) · GitLab CI/CD (Intermediate) · Distributed Systems (Intermediate) · C/C++ (Notions)

**Main Interest :** Sports & Health — years of bodybuilding experience, coached by a 2023 powerlifting world champion and a pro bodybuilder, created three weightlifting programs for intermediate lifters.