

# YOUSSEF BAT

Software Engineer | Data engineer | Researcher

[youssefbat.contact@gmail.com](mailto:youssefbat.contact@gmail.com)

<https://youssefbat-e.github.io>

34 651076823

Barcelona, Spain

Motivated final-year Computer Engineering student with previous professional experience, actively seeking an internship starting mid-September 2024. Ready to leverage my skills and knowledge in a dynamic and challenging environment.

## Work Experience

### Web developer

Apr 2024 - Jul 2024

*Sons Al Balco | Barcelona*

Developed a dynamic, interactive website with data dashboards and Mapbox cluster points

Updated PHP files for server-side optimization and code reusability

Created a Python script for periodic API interaction, generating functional datasets integrated into the website

### Data Engineer

Feb 2024 - Jul 2024

*Retabit | Barcelona*

Designed and implemented a Python routine for data optimisation, enhancing process speed and reducing memory usage

Developed two deep learning instance segmentation models with over 80% precision

Integrated open-source research projects into project development

Generated 2 million clean, precise, and ready-to-use data points

## Projects

### Deep learning Instance Segmentation Models

Feb 2024 - Jul 2024

Developed and fine-tuned two deep learning instance segmentation models achieving over 80% precision. Utilized TensorFlow and Keras for model development, enhancing image processing capabilities for manufacturing use cases.

### BeatBot

Feb 2023 - Jun 2023

Strengthened proficiency in Python and knowledge-based systems by developing a chatbot. Utilized Spotify API for data integration and employed the Telegram API for the visual interface, and an SQL database to follow up analytics

## Core Skills

C, Pandas, Statistics, Git, Deep learning, Python, Scikit-Learn, OS, Computer vision, ETL, TensorFlow, Machine learning, SQL, Algorithms, Analytics, Artificial intelligence, Data Science, Advanced Analytics, Big Data, Agile Methodologies, Computer Science, Linear Models, NoSQL Databases, Operating Systems, NoSQL Databases, Programming Principles, Cloud Computing, AI, Quality Testing, Text Classification, Technical Requirements, Meeting Goals, Managed Change, Business Requirements, Creative, Ability To Work Under Pressure, Collaborative, Ability To Work Under Pressure, Commitment, Get Things Done, Influence, Initiative, Innovative, Dashboard Creation, Data Visualization, Software As A Service, SaaS, Software Solutions

## Education

**LaSalle Ramon Llull university**

Sep 2020 - Jul 2025

**Computer Engineering**

# Languages

English *(fluent)*, French *(fluent)*, Spanish *(Advanced)*, Arabic *(native)*

# Awards

IT Program In Japan

SIT university

Completed the program at SIT University in Tokyo, focusing on software development and robotics

Feb 2023

Business Program In China

Fudan university

Completed "Doing Business in and with China" program at Fudan University in Shanghai, focusing on international business practices and strategies in the Chinese market.

Jun 2024

# Certificates

Cisco Certified Network Network Associate Routing and Switching (CCNA)

CISCO

May 2022

TOEFL

IBT

Dec 2019