

Mohamed Bentalha

Python developer internship

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Summary

I am a Software Engineering student at 1337 and ALX, as well as a Python Developer who specializes in developing scalable backend systems and data-driven applications using Python. I am passionate about developing robust applications using Python, Django, SQL, Spark, Airflow, and other technologies. I have a strong foundation in systems programming and networking, enabling me to design robust systems. I am looking forward to joining a Python development team and delivering quality software solutions.

Education

Um6p - 1337 coding school, Computer Science octobre 2024 - Present

• **Coursework:** C/C++, Bash, Networking, Algorithms, Data Structures, OOP

ALX Africa Data engineering program septembre 2025 - Present

• **Coursework:** python, PySpark, Airflow, Snowflake, AWS, SQL

Selected Projects

Customer Churn Analytics Data Platform

- Created a data platform on AWS for churn and retention analyses by designing ETL scripts in PySpark and AWS Glue to process the extracted data into analyze-ready format. Enabled SQL-based analyses by using Amazon Athena and derived conclusions on Engagements as well as Revenue at Risk
- Tools: AWS (S3, Glue, Athena, IAM), PySpark, SQL

webservice

- Webserv is a custom implementation of a high-performance HTTP/1.1 web server. It simulates real-world server behavior and demonstrates mastery of networking, concurrency, and protocol handling in C++. The project focuses on efficiency, correctness, and modular design.
- Tools Used: C++

ft transcendence – Multiplayer Pong Platform

- ft transcendence is a multiplayer web-based game platform that reimagines the classic Pong experience with modern features and enhanced gameplay. The project focuses on real-time local multiplayer, user management, security, 3D graphics, and game statistics to deliver an engaging and interactive experience.
- Tool Used: Python, Django, WebSockets, HTML/CSS/JavaScript, 3D graphics libraries, PostgreSQL

Technical Skills

- Programming: Python, C/C++, SQL, Bash
- Data Engineering: PySpark, Airflow, ETL, Data Warehousing, Snowflake
- Cloud&DevOps: AWS, Git/Github, Docker, Docker Compose, Nginx
- Concepts: Networking, Algorithms, OOP
- Problem-Solving, Teamwork, Adaptability, Critical Thinking, Time Management

Certification

CS50's Web Programming with Python and JavaScript - Harvard February 2026

Completed Harvard's CS50 Web Programming course, which covered full-stack web development using Python, Django, SQL, JavaScript, and React by working on real-world web development projects

AWS Certified Cloud Practitioner March 2026

Validates a foundational, high-level understanding of AWS Cloud concepts, core AWS services, and cloud terminology, including basic security, compliance, pricing, and billing models

Databricks Fundamentals Accreditation April 2026

Validates foundational knowledge of the Databricks Lakehouse Platform, including Apache Spark, data engineering workflows, and analytics basics