

OMAR BENZEROUAL

SOFTWARE ENGINEER

omar.benzeroual.pro@gmail.com

portfoliobenzeroual.com

EDUCATION	Engineering school CY-Tech	Pau, France
	<i>French Engineering Preparatory Program</i> • Main subjects: Math, Physics, Computer Science	2020 - 2022
	Engineering school CY-Tech	Pau, France
	<i>Master's degree in Software Engineering</i> • Last year option: Cloud Computing	2022 - 2025
INTERNSHIPS	IRDA Québec, Canada	2025.04 - 2025.10
	• Developed a machine learning model to predict agricultural yields. • Designed and deployed applications on GCP. • Enhanced front-end (React) and back-end (Python/FastAPI) systems.	
	Safran Bordes, France	2024.05 - 2024.08
	• Developed a user-friendly application on Apache Zeppelin using Python. • Processed and visualized data for non-technical users.	
	Axione Pau, France	2023.06 - 2023.08
	• Developed a Python/Flask application with PostgreSQL. • Processed employee data to compute day and night compensation. • Implemented user authentication and authorization to ensure secure access.	
PROJECTS	Real-time location tracking system	
	<i>Developed a real-time location tracking system using Kafka and FastAPI.</i>	2025
	Messaging platform (similar to Teams/Discord)	
	<i>Designed a full-featured messaging platform in Scala.</i>	2025
	High availability servers	
	<i>Deployed and orchestrated Minecraft servers on Kubernetes.</i>	2025
	Chatbot and smart search	
	<i>Developed a chatbot and a smart search using Python and Angular for sustainability-focused case studies to help businesses reduce costs and CO2 emissions.</i>	2024
	Facial recognition	
	<i>Developed a Python-based facial recognition application to authenticate users and enhance security.</i>	2022
	Blackjack	
	<i>Designed and developed a fully functional Blackjack game in C.</i>	2021
VOLUNTEERING	Jeanne d'Albret middle school	
	<i>Tutor for middle school students.</i>	2023 - 2024
SKILLS	Languages: Italian, French, English.	
	Programming: Python, C++, C, React, Java, Typescript, SQL.	
	Cloud: AWS, GCP	