



Yassine Bendimerad

Computer Scientist · ML & Computer Vision · Software Engineer

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PROFILE

Computer scientist building practical AI systems, from computer-vision research to deployed web applications. M1 student in image processing & computer vision (IMA) at Sorbonne Université; previously ML Data Associate at Amazon and research intern in Prof. Jiří Matas' group at CTU Prague, where my eye-tracking research began.

EDUCATION

- Sep 2026 – 2028 **MSc in Computer Science — IMA track (Computer Vision & Image Processing)**
Sorbonne Université · Paris, France
- Focus on image processing and computer vision, towards applications in robotics and healthcare
- Oct 2022 – Mar 2026 **BSc in Informatics Engineering**
Silesian University of Technology · Gliwice, Poland
- Strong foundation in mathematics, algorithms, data structures, and systems programming
 - Thesis: Botronka — a social companion AI robot on Raspberry Pi (vision, speech, LLM dialogue, motion) — grade 5.0/5
- Jan – Jul 2025 **Exchange Semester (Erasmus+)**
Universitat Jaume I · Castellón de la Plana, Spain
- Coursework in artificial intelligence, data-centric computing, and modern web technologies
 - Implemented a chatbot API to book and manage appointments as a class project
- 2019 – 2022 **Baccalaureate of Mathematics — 15.21/20**
Ministry of National Education · Sidi Bel Abbès, Algeria

WORK EXPERIENCE

- Apr – Aug 2026 **Data Associate**
Amazon · Gdańsk, Poland
- Produced and quality-controlled ML training data for models behind Amazon services
 - Contributed to data workflows for training and evaluating machine-learning models
- Oct 2025 – Apr 2026 **Freelance Software Developer**
The Third Space · Remote
- Designed and built a social app for creating, finding, and joining local events — live at thethirdspaceapp.com
 - Delivered the full UI/UX design and a working web app with a personalized event feed
- Sep – Oct 2025 **Research Intern — Computer Vision**
Czech Technical University, Dept. of Cybernetics · Prague, Czechia
- Joined Prof. Jiří Matas' group; surveyed and benchmarked webcam eye-tracking methods
 - Built a webcam gaze-tracking prototype for reading assistance in four weeks
 - Continued independently: showed that a single per-user gaze offset accounts for 74% of what calibration corrects — the basis for self-calibrating tracking
- Sep 2023 – Jan 2024 **Customer Service Agent**
Concentrix — TikTok Shop · Katowice, Poland

SELECTED PROJECTS

- 2025 – ongoing

WebCam Eye Tracker — yassine-resume.dev/lab/eye-tracker

- Tracks gaze from any webcam, live in the browser, and keeps recalibrating itself from the user's clicks — nothing leaves the device
- 2026 (BSc thesis)

Botronka — Social Companion Robot — github.com/bm-Yassine/botronka-ThesisProject

- Recognizes people, holds spoken conversations and moves on command, with all of its AI running offline on a Raspberry Pi
- 2026

Bird Spotter — Species Detector — birdspotter.vercel.app

- Extended a group project: finds every bird in a photo, names the species (91.5% accuracy after I retrained the classifier) and plays its call
- 2024 / 2026

Face Recognition Attendance System — github.com/bm-Yassine/AutoAttendanceSystem

- Takes attendance automatically by recognizing faces, with a live dashboard anyone on the network can open
- 2026

Shelf — Trading Platform for Collectors — exchange-shelf.vercel.app

- Turned a group project into a live, secure swap platform, with an AI assistant that answers questions about the listings
- 2023 / 2026

Blind Flamingo — Couch Party Game — blindflamingo.vercel.app

- My first C++ game, reborn as an installable offline web game under 250 KB

Also on GitHub: C++ projects — Huffman/LZ77 compressor, payroll CLI, binary search tree
- SKILLS
- Computer vision

OpenCVMediaPipeYOLOGaze estimationFace recognitionPnP / calibration

Deep learning & ML

PyTorchTensorFlowONNX RuntimeCNN fine-tuningRidge regression

LLMs & speech

llama.cppwhisper.cppPiper TTSClaude API (tool use)NLP

Programming

PythonC++GoTypeScriptJavaSQL

Web & apps

ReactReact Native (Expo)Next.jsNode.jsREST APIsFirebasePostgreSQL

Robotics & tools

Raspberry PiROS Sensors & GPIOLinuxGitDockerVercel
- LANGUAGES
- Arabic

Mother tongue

English

C2 — Fluent

French

C2 — Fluent

Spanish

B1 — Intermediate

Polish

B1 — Intermediate
- CERTIFICATIONS
- Fundamentals of Google AI for Web Based Machine Learning · Google — EdX

Data Science with Python · FreeCodeCamp

CS50's Introduction to Computer Science · HarvardX — EdX

Python · HackerRank
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