

# Riad Boussoura

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## EDUCATION

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### Sorbonne Paris Nord University

Master of Artificial Intelligence & Computer Vision (Excellence Scholarship)

Sep. 2023 – Sep. 2025

### University of Science and Technology (USTHB)

Master of Computer Vision & Bachelor of Software Engineering (Top of Class)

Sep. 2019 – Jun. 2023

### Samsung Innovation Campus

Artificial Intelligence & Data Science Certification (Selected Top 30 Nationwide)

Jun. 2021 – Sep. 2021

## EXPERIENCE

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### Computer Vision R&D Engineer

Mar. 2025 – Sep. 2025

GoPro

Paris, France

- Architected a "Sim-to-Real" deep learning pipeline to solve parallax artifacts in dual-lens 360° image stitching.
- Developed a procedural generation engine in **Blender (Python API)** to render photorealistic synthetic datasets.
- Engineered a custom **PyTorch** model; validated with ML & Algorithm teams to outperform the production baseline.
- Achieved > 50% **reduction in processing time** over the legacy algorithm while minimizing seam artifacts.

### Lead Founding Engineer & CTO

Jan. 2023 – Nov. 2024

BargMe Startup

Remote

- Engineered a **vision-integrated product recognition pipeline**, processing real-time mobile camera input to trigger algorithmic recommendations.
- Developed the recommendation logic that generates cost-optimized alternative shopping lists based on queries.
- Managed product lifecycle from research to deployment on Debian VPS, balancing backend latency with mobile constraints.

### Technical Educator & 3D Specialist

Jan. 2022 – Dec. 2023

SkillDino (InspirationTuts)

Remote

- Authored tutorials on 3D Computer Vision (Photogrammetry, NeRFs) for an audience of 300,000+ subscribers.
- Produced content bridging 3D software (Blender, Unity) and AI (OpenCV), simplifying complex research papers.

## PROJECTS

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### ASYEL: Sign Language Translation | Deep Learning, LSTM, Time-Series

Apr. 2022

- Architected a gesture-to-speech translation pipeline using LSTM networks to classify live sign language sequences.
- Solved data scarcity by recording a custom dataset, handling motion capture to feature extraction.
- Won **2nd Prize** at the National Innovation Competition (Ministry of Telecommunication).

### Autonomous Safety & Fall Detection | Python, Pose Estimation, Edge AI

Nov. 2021

- Developed an AI safety module for robotic vacuums to detect unattended incidents using Skeleton Tracking.
- Designed human-in-the-loop verification: AI waits for an "OK" gesture to cancel alerts, reducing false positives.
- Awarded **1st Prize** at the Google DevFest AI Hackathon and featured on national television.

### Real-Time Driver Monitoring (ADAS) | Python, MediaPipe 3D, OpenCV

Sep. 2021

- Engineered a drowsiness/distraction detection system using 3D Facial Mesh to track 468 landmarks in real-time.
- Implemented geometric analysis of facial vectors to calculate Eye Aspect Ratio (EAR) and yawning frequency.
- Selected as "Judges' Favorite" capstone project at Samsung Innovation Campus.

## TECHNICAL SKILLS

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**Computer Vision & 3D:** OpenCV, MediaPipe, YOLO, Optical Flow, Stereo Vision, Multi-view Geometry, Depth Est.

**Deep Learning:** PyTorch/TensorFlow, CNNs (U-Net, ResNet), Vision Transformers, GANs, LSTMs, Custom Loss Design, Model Optimization

**3D Graphics & Sim:** Blender (Procedural Generation, Python API, Physics), Unity, Unreal Engine, Ray Tracing

**Software Engineering:** Python (Expert), C++, C, TypeScript/JavaScript, SQL, Git, Docker, Linux, AWS, ONNX

**Data Science:** NumPy, Pandas, Scikit-learn, Matplotlib, Seaborn, Jupyter