

Ahmed HASSAYOUNE

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EDUCATION

SORBONNE UNIVERSITY

Paris, France

Master's Degree (M2), Image Track (IMA)

2024 – 2025

- Double degree program with EPITA's IMAGE major.
- Coursework: Medical Imaging, Computer Vision, Deep Learning, Advanced Image Processing.

EPITA – SCHOOL OF COMPUTER ENGINEERING

Paris, France

Engineering / Master's Degree, Image Track

2020 – 2025

- Specialized in Machine Learning, Pattern Recognition, Medical Imaging, GPU Optimization.
- Valedictorian during the first two years of the preparatory cycle.

HANYANG UNIVERSITY (Top 20 in Asia)

Seoul, South Korea

Exchange Semester, GPA 87/100

(6 months) 2022

- Courses: Linear Algebra, Machine Learning, Data Structures, Object-Oriented Programming.

ISC – INTERNATIONAL SCHOOL OF CARTHAGE

Tunis, Tunisia

Scientific Baccalaureate, Mathematics specialization, Highest Honors

2020

PROFESSIONAL EXPERIENCE

GENERAL ELECTRIC HEALTHCARE

Buc, France

Final-Year R&D Internship

(6 months) March 2025 – September 2025

- Developed a 3D generative model for pulmonary nodule synthesis in CT imaging.
- Designed conditioning methods to control generation along morphological and pathological aspects.
- Created synthetic CT scans and enhanced detection model performance.
- Annotated over 1300 lung nodules (3D segmentation and labeling) to enrich training datasets.
- Collaborated with an R&D team (AI researchers, clinicians) and presented findings in internal seminars.

DXOMARK

Paris, France

Full-Stack Web Development Internship

(5 months) September 2023 – February 2024

- Developed a visualization interface for smartphone camera scoring used by engineers and product teams.
- Migrated a large-scale app from Vue 2 to Vue 3 (20+ dependencies).
- Designed and implemented backend services, integrated into an existing modular architecture.
- Contributed in an Agile Scrum team with developers, and image QA engineers, improving release cycles.

PROJECTS

FOCH HOSPITAL & UNIVERSITY PARIS-SACLAY

Paris, France

Alignment of mass spectrometry data

(6 months) September 2024 - February 2025

- Final-year project in a 5-person team on GCxGC-MS breath data alignment for biomarker discovery.
- Conducted literature review and benchmark of 5+ alignment algorithms.
- Applied signal and image processing methods (pattern recognition, edge detection, Fourier transform).
- Integrated algorithms into production code, ensuring reliable alignment on real clinical chromatograms.

3D Brain Tumor Analysis

(1 month) Juillet 2024

- Analysis of changes in tumor images through registration, segmentation, and visualization.
- Benchmarked multiple algorithms to identify the most accurate pipeline.
- Utilized ITK and VTK for 3D rendering and medical imaging workflows.

SIFT Implementation (C++)

(1 month) June 2024

- Implemented an optimized SIFT algorithm for feature detection and matching.
- Achieved fast and accurate extraction for large images.
- Applied to automatic stitching of fragmented images for scene reconstruction.

SKILLS

Technologies: C, C++, Python (Numpy, Scipy, Pandas, Scikit, OpenCV, PyTorch, TensorFlow, Keras), ITK/ VTK, CUDA, Docker, Git, Deep Learning (CNNs, Transformers, GANs, Diffusion Models), Computer Vision
Languages: French and Arabic (Bilingual), English (TOEIC 925)