

Maissoune Nour El Houda Arif

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○ Setif, Algeria

Computer Science Student

Applying for the Romanian Government Scholarship Program

Third-year Computer Science student at the University of Ferhat Abbas Setif 1 (UFAS1), with a **Year 1 average of 17.81/20** and **Year 2 average of 16.32/20**, and a **Baccalaureat grade of 18.86/20 (Excellent mention)**. Strong foundations in algorithms, data structures, systems programming, and full-stack web development, with growing interest in Artificial Intelligence. Seeking the Romanian Government Scholarship to pursue advanced study within the European academic system, build interdisciplinary research experience, and pursue a long-term career in AI research leading to a PhD.

Education

Bachelor's Degree in Computer Science — Specialisation: Computer Systems *Sep 2023 – Present (L3)*
University of Ferhat Abbas Setif 1 (UFAS1), Faculty of Science, Algeria

Academic performance :

Selected Course	Grade /20	Year
Algorithms & Data Structures 1	17.95	L1
Machine Structure 1	19.20	L1
Mathematical Analysis 1	17.00	L1
Algorithms & Data Structures 2	16.90	L1
Graph Theory	17.90	L2
Mathematical Logic	17.43	L2
Object-Oriented Programming	18.05	L2
Web Application Development	18.80	L2
Year 1 Overall Average	17.81 / 20	L1
Year 2 Overall Average	16.32 / 20	L2

Total cumulative credits: 120/180 (L1 + L2 completed). Decision: Pass (ordinary session) both years.

Baccalaureat — Experimental Sciences *2022*
Malika Gaid High School, Setif, Algeria **Final Grade: 18.86 / 20 — Excellent Mention**

Academic Projects

Process Scheduler with Multithreading — C (POSIX pthreads) *Oct 2025 – Jan 2026*

- Designed and implemented a multithreaded CPU process scheduler simulating real OS scheduling strategies
- Applied mutex locks and synchronization primitives to manage shared resources and prevent race conditions
- Developed as part of the Operating Systems course

Lexical Analyzer — Flex (lexical generator) *Nov 2025 – Jan 2026*

- Built a fully functional lexical analyzer using formal grammar rules and regular expression-based token recognition
- Covered core compiler design concepts: tokenization of keywords, identifiers, operators, and literals
- Completed as part of the Compiler Design module

Minimum Spanning Tree Algorithms *Sep 2024 – Dec 2024*

- Implemented and compared Prim's and Kruskal's MST algorithms for network optimization problems
- Analyzed efficiency differences across varying graph densities and edge weights
- Built directly on Graph Theory coursework (grade: 17.90/20)

Customer Relationship Management (CRM) System — Svelte, TypeScript, Supabase, PostgreSQL Jan 2025 – Present

- Collaborated in a four-student team to design and develop a CRM web application for managing customer records and business interactions
- Built a dynamic, responsive frontend interfaces using Svelte and TypeScript
- Implemented CRUD operations and backend services using Supabase and PostgreSQL and external API integration
- Developed as final-year undergraduate project and submitted with full technical documentation

Technical Skills

Programming Languages	C, C++, Java, Python, PHP, JavaScript, HTML/CSS, TypeScript
Tools & Technologies	Flex, MySQL, Git, Svelte, Supabase, PostgreSQL, VS Code, Code::Blocks
CS Concepts	Data structures, sorting & search algorithms, MST, multithreading & synchronization, formal languages, relational databases, full-stack web development, OOP
AI Exposure	Machine learning fundamentals, computer vision basics, AI ethics (Huawei ICT Academy, May 2026)

Training & Certifications

Huawei ICT Academy — Overview of AI	May 2026
Certificate Code: ICT20260501087004 Topics: AI fundamentals, machine learning overview, computer vision basics, AI ethics	
Huawei ICT Academy — Search and AI	May 2026
Certificate Code: ICT20260501000349 Topics: Search algorithms, game tree concepts, and fundamentals of artificial intelligence	
Bright School — Management & Marketing Fundamentals	Duration: 2 months
Topics: Project management principles, marketing basics, business communication. <i>Certificate available upon request.</i>	

Language Proficiency

Arabic	Native / Mother tongue
English	Upper-intermediate to advanced proficiency — B2/C1 (Strong reading and technical documentation comprehension; intermediate speaking and writing)
French	Intermediate proficiency — B1/B2 (Able to understand academic content and communicate in educational contexts; studied throughout university curriculum)
Romanian	Beginner — A0 (no prior knowledge; committed to intensive pre-departure language study)
Spanish	Beginner — A1 (basic reading and phrases)

Additional Information

- **Research ambition:** Long-term goal to pursue a PhD in Artificial Intelligence following master’s-level studies in Romania, with a focus on contributing to the European AI research community
- **Availability:** Immediate availability for the full scholarship period
- **Interests:** Artificial intelligence, language learning and cultural discovery, animal welfare, and football (as both a fan and a follower of sports journalism)