

Mouhamad Alim Al-Amine

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Nationality: Central African Republic

Profile

Final-year Computer Science student with interest in reinforcement learning and autonomous systems. Experience in building simulation environments and implementing machine learning models. Seeking opportunities to continue developing research and technical skills in AI and intelligent systems.

Education

Bachelor of Science in Computer Science

Islamic University of Madinah, Saudi Arabia

June 2026

Relevant Coursework:

Machine Learning, Operating Systems, Computer Networks, Software Engineering, Parallel & Distributed Computing, Computer Architecture, Database Systems, Research Methodology.

Academic Projects

Graduation Project — Deep Reinforcement Learning for Autonomous Drone Navigation

- Implemented a PID controller for baseline and a reinforcement learning agent for quadrotor in simulation.
- Built and tested the environment using Python, Gymnasium, and Webots.
- Designed reward functions and evaluated training performance.

Computational Pipeline Project — KAUST Academy (Summer 2025)

- Developed an automated workflow integrating AlphaFold2 and AutoDock Vina.
- Focused on scripting, execution management, and documentation.

Parallel Computing Project

- Configured and documented a small MPI-based cluster environment.
- Explored basic distributed execution and performance concepts.

Technical Skills

Programming: Python, Java, MATLAB, SQL

Tools: Gymnasium, Webots, MPI, Git, Linux

Concepts: Reinforcement Learning, Neural Networks, Distributed Computing

Certifications

- Deep Learning Specialization — DeepLearning.AI
- Mathematics for Machine Learning — DeepLearning.AI
- Python 3 Programming Specialization — University of Michigan
- Google Data Analytics Professional Certificate

Community Engagement

Volunteer involvement with youth and development organizations in the Central African Republic, supporting community initiatives and educational access.

Research Interests

- Reinforcement Learning
- Autonomous Systems
- Intelligent Control
- Embedded AI
- Low resource NLP