

COULIBALY ADAMA

Curriculum Vitae

☎ (+84) 983521482

✉ coulibalysadama@gmail.com, coulibaly@ifi.edu.vn

Academic Qualifications

- 2017 - 2019 **MSc, Intelligent and Multimedia Systems**, *Vietnam National University (VNU)*, Hanoi-Vietnam, .
- 2017 - 2019 **MSc, Enterprise Digital Content Engineering**, *Rochelle University*, Rochelle-France, .
- 2010 - 2013 **BSc, Computer Science**, *University Institute of Management (IUG)*, Bamako-Mali, .

Skills

- **Technical** : Python, Java, C++, C# , Javascript, PHP, Prolog..., Data Mining techniques, Github, Docker, Kubernetes, Matlab, LaTeX, Photoshop, Gimp.
- **IDE**: (Eclipse, NetBean, Visual Studio, CodeBlock IDE, JetBrains...)
- **Machine Learning** : (Tensorflow(currently learning), Keras, KNN, K-MEANS, OpenCV, Matplotlib, Numpy...)
- **GAMA Platform** : (Modeling and Simulation Complex Systems)
- **Computer Vision**: (OpenCV, STIF...)
- **Pattern recognition** : (Bayesian classification, SVM-based classification, classification using neural networks)
- **Virtual and Augmented Reality** : (Unity, Blender, Vuforia.)
- **Reasoning and Uncertainty** : (Propositional logic, modal logic, fuzzy logic, Bayesian networks)
- **Multi-Agent System and Artificial Intelligence** : (GAMA and JADE)
- **Interactive systems engineering**: (Simulation of a development using the Scrum method, Framework XNA/monogame, Métrique).
- **Indexing multimedia content** : (Clustering and Indexation, Multiscale and multi-orientation invariant signatures for pattern recognition and multimedia indexing)
- **Web design and development**: Java EE, Spring, Hibernate, Wordpress.
- **Systems** :WINDOWS, LINUX.
- **Languages**: English, French, Vietnamese.

Projects

- **Software engineering** : **Software Assurance and Quality**, The criteria of a quality software that meets the requirements; **Housing Management**, Application design of a housing or building management tool.
- **Project management**:**Tracking the progress of a development project**, with the agile method (scrum); **Internship Management**, Design of an internship management tool, facilitating the search for end-of-cycle internships.
- **Personal work Supervised** : Package and redeploy the IFI Online Schedule with Docker and GitHub.

- **Data- mining** : Prediction of type 2 diabetes in a group of pima indian women living in Arizona, United States with Tanagra.
- **Image processing and Computer Vision:** Image enhancement, contrast, segmentation, contour detection, face recognition with Convolutional Neural Network (CNN), skin detection, motion detection in a video stream... in C++ & Python.
- **Pattern recognition:** Object recognition, objects and people detection in an image or video in Python.
- **Man Machine Interaction:** Prototype of a tool that improves the user's sleep with multi-tasking.
- **Indexing multimedia content** : Indexing of images by content using Hu Moments, color histograms, KNN..., in python.
- **Virtual Reality and Augmented:** HumanoidProject, creating a humanoid avatars with animations, modeling objects in a real environment with tools like Blender, Unity, Vuforia, C#.
- **Multi-Agent System** Modeling and simulation of air traffic, evacuation of a flood case, traffic (car-refour), ants, K-mean, Predator and prey, Traffic in a crossroads, Evacuation in a fire, with Gama platform and JADE (Java).
- **Constraint programming** : Realization with the Java OpenCBLIS (local searches) and CHOCO (programming by constraints exhaustive and optimal search) libraries of course scheduling and optimization programs (Course scheduling and Bin Packing).
- **Network Design and Architecture:** The project "Linux in network"
- **Ontology & Semantic Web** : Social network simulation with python library RdfLib for the construction of the RDF and Jenna Serveur for deployment of RDF file.

Employment Work Experience

- March - July 2014 **ORANGE-Mali**, *Internship*, Bamako, Mali.
 - Computer networks troubleshooting assistance.
- March 2015 - April 2016 **ORANGE-MALI**, *computer network technician*, Bamako, Mali.
 - Installation equipment and troubleshooting computer networks.
- March 2017 - Nov 2017 **STOP-SAHEL** , *Community Development Officer*, Kita, Mali.
 - Sensitization, education and formalization of women's and youth groups.

References

- **Mr. Ho Tuong Vinh, PhD**, Head of Training & Vice Director at the IFI (Institut Francophone International), Vietnam National University; Email: ho.tuong.vinh@gmail.com
- **Mrs. Nguyen Hong Quang, PhD**, Professor (Network design and architecture, GNU-LINUX) at the IFI (Institut Francophone International), Vietnam National University; Phone: +84 912 751 749 · Email: nguyen.hong.quang@ifi.edu.vn