

# RONALD TATCHEMO GUIAFAING

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## RESEARCH INTERESTS

Human Computer Interaction || Computer Vision || Deep Learning || Natural Language Processing || Digital Earth Society & Network

## EDUCATION

Oct 2025-August 2026

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### IUC

#### Master's in Data Science and AI

Relevant Courses: Cloud Computing - Amazon AWS, Semantic Web Technologies, Software Engineering Part 1, Web Engineering, Data Wrangling with SQL, Data Warehousing & ETL, Graph Databases – NoSQL, Document Databases, Data Pipeline Part

### University of Verona

Oct 2023-July 2025

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#### Master in Computer Engineering for Robotics and Smart Industry

GPA: 24.57 / 30

Relevant Courses: Advance Database and Information System, Deep Learning, Computer Vision, Process Monitoring, System Verification and Testing, Machine Learning and Artificial Intelligence, Human Computer Interaction, Hardware Component Design on FPGA

### Catholic University Institute of Buea.

#### Bachelor of Sciences in Software Engineering

September 2019 - July 2023

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GPA: 3.40/4.00 – Dean List

**Thesis Title:** Disease Prediction Web App Using Machine Learning

Relevant Courses: Scientific Research Methods, Operating Systems, Introduction to Data Science and Operations Research, Advanced Data Structures and Algorithms, Computer Architecture

## RESEARCH, WORK AND TEACHING EXPERIENCE

### Undergraduate Research Project

❖ Department of Information Technology, Catholic University Institute of Buea March – August 2022

#### Advisor: Mrs Fani Tiako Michele

- Conducted datasets collection of Various diseases in Medical facilities in Douala Region
- Extracted and Collected data to perform some basic computation regarding machine learning models.

### Research engineer

#### Advisor: Professor Andrea Giachetti

February 2024 – June 2024

- Bilateral Filtering
- Normal Mapping
- Image Processing Techniques (Matplotlib, OpenCV, TensorFlow, Meshlab and Keras)

## University research assistant

**Advisor: Professor Alberto Belussi**

October 2024 – January 2025

- testing spatial data models and schema for geographical data
- implementing and optimizing spatial databases and data warehouses
- building and deploying spatial web services and APIs;
- integrating and harmonizing spatial data from different sources and platforms (MongoDB , Hbase, QGIS)

## EMICO INFORMATIQUE Intern

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❖ Search gate Laboratories Limited

August 2020 – November 2020

1. Web Site development of Various Customers depending on each specifications
2. Ensure privacy and data protection.

## LEADERSHIP AND VOLUNTEERING EXPERIENCE

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❖ Developer Lead : Yimmiline Sas

May 2021 – December 2022

### Senior Developer

- Head of team of 3 Engineer working on a tech project of a Web application of Yimmiline both Yimmiline AVI and Yimmiline.com

## SKILLS AND PROFICIENCIES

- ❖ **Technical and Software skills:** QGIS, C,C++, MongoDB, Postgis , Django , OpenLayers, Meshlab , Matplotlib , Matlab , Node.js , Python /SQL, Java / Unity, MySQL / PHP / Linux , R

## Language Proficiency

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- ❖ English ( Native)

## PROFESSIONAL AFFILIATION

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Member, Envisionit

Member, International Foundation Big Data and Artificial Intelligence for Human Development (IFAB)