

CURRICULUM VITAE OF

MENSAH Jacob

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OBJECTIVE

To touch the zenith of my career by converting my innovative ideas into fruitful results and to work in cutting-edge competitive industry and challenging work environment to conduce the best of my ability towards the growth and development of the organization.

EDUCATION

University of Energy and Natural Resources (Degree Certificate) November 2018 – December 2022

Program: MPhil Computer Science

University of Energy and Natural Resources (Degree Certificate) September 2013 - May 2017

Program: BSc Computer Science

Takoradi Senior High School (WASSCE Certificate) September 2008 – May 2012

Program: General Science

German Institute of Business Technology (Professional Course) June 8 – October 6, 2020

Program: Data Science

Ghana Tech Lab National Hackerton (Professional Course) August 5 – September 16 2019

Program: Artificial Intelligence Training

International Training on Big Earth Data for (Professional Course) October 30 – November 5 2018

Disaster Risk Reduction (China)

University of Energy and Natural Resource (Professional Course) May 23 – July 7, 2016

Program: IBM Big Data Specialist and Developer

WORK EXPERIENCE

University of Energy and Natural Resources

August, 2023 - **Till date**

Assistant Lecturer

- Under taking research.
- Teaching students at the degree level in courses such as Artificial Intelligence, Information Security etc.
- Undertaking community service.

University of Energy and Natural Resources

February, 2021 - July, 2023

Senior Research Assistant

- Analyzing data using various tools to visualize and interpret.
- Assisted undergraduate students working on the research project (maintaining records on assignment completion, acting as liaison/mediator between the undergraduate students and the faculty researcher).

Ghana Meteorological Agency

October, 2018 – December, 2020

Technical Officer

- Taking daily weather observation of weather data which is used for weather forecasting and rainfall predictions
- Resetting and maintaining of weather instruments to ensure their proper functioning

Chief Sport Pundit

November, 2018 – Till date

Greena FM

- Leading all discussions on the Greena sport show.
- Prepare for the show by researching clubs, coaches or players.
- Work with a production team to ensure smooth running of the show.
- Describe events in an impartial, yet enthusiastic way.

St. Vitus International School

August, 2018 – December, 2018

Teacher (Mathematics and ICT)

- Teaching and guiding pupils during lessons and ensuring that the necessary teaching environment is created.

National Service (University of Energy and Natural Resources)

September, 2017 – August, 2018

Teaching Assistant

- Delivering tutorial to student on either a one-to-one basis or in small groups or the whole class as a whole
- Support the lecture in managing student's behaviour in class to ensure they exhibit positive behaviour.
- Coordinating specific areas of teaching support once I have the right level of experience or knowledge.

Earth Observation and Research Innovation Center (Internship)

June – July, 2015

- Writing python scripts to extract contents in spatial data for the analysis.
- Writing python scripts to monitor disc or drive size used or unused in a computer.
- Designing posters to create awareness about illegal logging.

Sekondi Takoradi Metropolitan Assemble (Internship)

June – July, 2014

- Installing printer drivers
- Assisting in repairing of computers and printer

LEADERSHIP EXPERIENCE

Christ Apostolic Students and Associates

November, 2020 – Date

Tertiary Coordinator

- Coordinating all CASA students body's on the various tertiary campus in the Bono, Bone East and Ahafo region

2017 Alumni Representative Leader

October 2020 – March 2022

UENR Alumni

- Coordinating all 2017 alumni and representing them on the alumni council.

Vice President – Students' Chaplaincy Council (SCC)

April 2016 – April 2017

- Able to assist the president in leading, guiding and directing affairs of students.

Vice President – Christ Apostolic Students’ and Associates (CASA)

April 2015 – April 2017

- Able to assist the president in leading, guiding and directing the spiritual affairs of students.

Welfare Board Member – Students’ Representative Council

2015 – 2016

- Was able to contribute with ideas towards building a vibrant welfare for the school.

Welfare commissioner – Computer Science Students’ Association

2015 – 2016

- Successfully represented my association during SRC welfare meetings

AnidasoƆ NsaƐ Policy Drafting Committee Member – Students’ Representative Council 2015 – 2016

- Was able to help in the drafting of the AnidasoƆ NsaƐ Policy for needy but brilliant students.

Bible Studies Coordinator – Christ Apostolic Students’ and Associates (CASA) March 2014 – April 2013

- Was able to successfully organize bible studies class for the church every week.

MEMBERSHIP

- International Society for Digital Earth - China
- GrassRoot Hub – Sunyani, Ghana

CONFERENCES / WORKSHOPS ATTENDED

- International Society for Digital Earth – China (2018).
- ACM Conference – Ghana (2020).
- GRASAG - UENR Research Workshop - (2020).
- Capacity training on Geographical Information System (GIS) on Amazon Web Service (AWS) – 2021.
- UENR-ACU Early Career Research Training – 2023.

RESEARCH PUBLICATIONS

Nimbe, Peter & Yeng, Prosper & Okyere, Eric & Weyori, Benjamin & Adekoya, Adebayo & Appiahene, Peter & Nyarko-Boateng, Owusu & Nti, Isaac & Boateng, Samuel & Patrick, Mensah & Umar Bawah, Faiza & Awarayi, Nicodemus & Akoto-Adjepong, Vivian & Agbedanu, Promise & Ayidzoe, Mighty & **Mensah, Jacob** & Adjei Domfeh, Emmanuel. (2022). Innovative Approaches to Classical and Quantum Reflected Binary Code Generation using Pascal Triangle, Reversible N-Input C-Gate and Reversible N-Input Q-Gate. *Journal of Algebraic Statistics*. 13. 4708-4734.

Nimbe, P., Weyori, B. A., **Mensah, J.**, Amponsah, A. A., Adekoya, A. F., & Adjei Domfeh, E. (2022). Quantum Blockchain: A Systematic Review. In M. Shrivastava, K. Hiran, A. Bhansali, & R. Doshi (Ed.), *Advancements in Quantum Blockchain With Real-Time Applications* (pp. 1-35). IGI Global. <https://doi.org/10.4018/978-1-6684-5072-7.ch001>

RESEARCH PUBLICATIONS UNDER REVIEW

Adjei Domfeh, Emmanuel, Weyori, B., Appiahene P., **Mensah, J.**, & Awarayi, N. (2022): Human-Centered Artificial Intelligence, a review. *IEEE Transactions on Human-Machine Systems*, THMS-22-01-0002. TechRxiv. Preprint. <https://doi.org/10.36227/techrxiv.19174772.v1>

Nimbe, P., Adjei Domfeh, E., Weyori, B., Adekoya Adebayo, F., Kwabena Mensah, P., Abra Ayidzoe, M., Appiah, O., Quayson, E., Boateng, S., Bawah, F., Kofi Nti, I., Nyarko Boateng, O., Songose, N., Akoto-Adjepong, V., & **Mensah, J.** Quantum Computer Games: a systematic review [Review of Quantum Computer Games: a systematic Review]. *Quantum Information Processing*.

Nimbe, P., Kofi Nti, I., Asubam Weyori, B., Boateng, S., Felix Adekoya, A., Boateng, O.-N., Kwabena Mensah, P., Abra Ayidzoe, M., **Mensah, J.**, Adjei Domfeh, E., & Akoto-Adjepong, V. (n.d.). *Pharmacy Information Systems: a systematic review*. *Scientific African*.

Mensah, J., Felix Adekoya, A., A., Boateng, Kofi Nti, I, (2022).

A Combined Machine Learning Techniques for Rainfall Prediction: A Case Study of the Bono region of Ghana: *Meteorological Applications*.

SKILLS AND INTERESTS

- Computer Skills - Proficient in Microsoft Word, Microsoft Excel, PowerPoint.
- Programming Languages (Visual Basic, Java, PHP, Python, Fortran)
- Databases (PostGres, MySQL, SQL, Microsoft Access)
- Languages - Fluent in English, Akan and moderately good in speaking French

CHARACTER TRAITS

- A team player
- Ability to work with and among group
- Creativity, innovation and hardworking
- Commitment to humanitarian practices and action
- Fast learner

HOBBIES

Listening to music, Watching or playing football and Reading or listening to current affairs in Ghana.

RESIDENTIAL ADDRESS

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REFEREES

Prof. Adebayo Felix Adekoya

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