



# **CURRICULUM VITAE**

## **1. PERSONAL**

- (i) **NAME IN FULL:** Christopher Bombie Ninfaakang
- (ii) **PLACE OF BIRTH:** WA
- (iii) **AGE:** 49
- (iv) **SEX:** MALE
- (v) **NATIONALITY:**GHANAIAN
- (vi) **TOWN AND STATE OF ORIGIN:**NANDOM UPPER WEST REGION
- (vii) **CONTACT ADDRESS:** Department of Computer Science & Informatics,  
University of Energy & Natural Resources,  
Sunyani, Bono Region, Ghana.
- (viii) **PHONE NUMBER :** +233553021868, 0505435835
- (ix) **E-MAIL ADDRESS:** [christopher.ninfaakang@uenr.edu.gh](mailto:christopher.ninfaakang@uenr.edu.gh)
- (x) **WEB CITATIONS:**
  - a. **Google Scholar:**
  - b. **Research Gate:**
- (xi) **PRESENT POST:** Lecturer
- (xiv) **POST ON APPOINTMENT/DEPT.** Assistant Lecturer

## **2. EDUCATIONAL BACKGROUND**

### **i. Educational Institutions Attended (with Dates)**

Department of Computer Science, Faculty of Science, University of Science and Technology (KNUST), Kumasi

**Doctor of Philosophy (PhD Student in Computer Science) – Ongoing**

Department of Studies in Computer Science, University of Mysore, India

**Master of Science (MSc. Computer Science) – 2014**

Department of Computer Science, University of Ghana, Legon

**Bachelor of Science (BSc. Computer Science and Statistics) - 1998**

- ii. **Academic Qualifications (with Dates)**
- a. Doctor of Philosophy (PhD in Computer Science) **Ongoing**
- a. Master of Science in Computer Science (Distinction) **2014**
- b. Bachelor of Science (Second Class (Hons)) in  
Computer Science and Statistics Combined Major **1998**

iii. **Professional Qualifications and Certifications (with Dates)**

- b. Certificate in TCP/IP Fundamentals and Concepts, NIIT **2008**
- c. Certificate in Operating Systems Fundamentals, NIIT  
Oct 2007 to Mar.2008. **2008**
- d. Certificate in Developing Windows Applications using VB.Net, NIIT **2008**
- e. Certificate in Network Fundamentals, NIIT Oct 2007 to March 2008. **2008**
- f. Big Data Specialist with IBM Big Insights V2.1 Certificate  
(IBM MEA University) UNIQUE ID 4379-1467-1984-0915 **2016**
- g. Oracle Academy Certificate on “Database Design and Programming with SQL” **2016**
- h. Certificate in Introduction to Systems Modelling with Universal Modelling  
(UML) held in Engineering Guesthouse (KNUST, Kumasi) from 10<sup>th</sup> – 15<sup>th</sup>  
August 2017 **2017**
- i. Certificate in Instructional Skills Workshop (ISW) Community under  
Vancouver Island University January 30<sup>th</sup> to February 2<sup>nd</sup>, 2018. **2018**
- j. Certificate in **Cyber security trends in Ghana**, Accra conference Center,  
From 5th - 9th Feb 2018 **2018**
- k. Certificate in Capacity Building in Curriculum Development On 27th September **2018**
- l. Certificate in Good Assessment Practices in Higher Education: Improving  
Teaching and Learning Workshop Held at the Sheila’s Executive Hotel from  
16<sup>th</sup> – 17<sup>th</sup> January 2019 **2019**

iv. **Scholarships Awarded**

**Full scholarship for Master of Science (MSc) program in Computer Science**  
Indian Council for Cultural Relations (ICCR) Scholarship June 2012 to July 2014.  
University of Mysore, India:

### 3. WORK EXPERIENCE

#### 3.1 Teaching Experience

i. **Lecturing (Teaching, Research & Community Service)**

Department of Computer Sciences & Informatics,  
University of Energy & Natural Resources,  
Sunyani, Brong Ahafo Region, Ghana.

a. Current **Status & Date:** Lecturer

**Sept. 2014 to Date**

ii. **Part-Time Lecturing Experience**

Facilitator (Kwame Nkrumah University Of Science and Technology(KNUST IDL)  
**Jan 2015 to Date**

Lecturer - Blue Crest University, Accra

**Sept 2014 to Dec 2014**

#### Summary of Courses taught since 2014

Course Code	Course Title	Classes Taught	Semester/Acad Year
Comp 207	Database Systems	BSc Computer Sc.	1-2014/2015
UENR 103	Computer Literacy and IT	BSc Maths, Stats	1-2014/2015
Comp 109	Principles of Programming	BSc Computer Sc.	1-2014/2015
Comp 104	Programming With C++	BSc Computer Sc.	2-2014/2015
Comp 204	Advanced Database System	BSc Computer Sc.	2-2014/2015
Comp 207	Database Systems	BSc Computer Sc.	1-2015/2016
UENR 103	Computer Literacy and IT	BSc Maths & Stats	1-2015/2016
Comp 109	Principles of Programming	BSc Computer Sc.	1-2015/2016
Comp 309	Design & Analysis of Algorithms	BSc Computer Sc.	1-2015/2016
Comp 313	Data Mining & Warehouse	BSc Computer Sc	1-2015/2016
Comp 104	Programming With C++	BSc BSc Maths	2-2015/2016
Comp 204	Advanced Database System	BSc Computer Sc	2-2015/2016
Comp 304	Human Computer Interaction	BSc Computer Sc	2-2015/2016
Comp 314	Research Methods	BSc Comp. Sc & IT	2-2015/2016
DCSC 107	Computer Ethics	Dip In Comp Sc.	1-2016/2017
UENR 103	Computer Literacy and IT	Comp Eng, Bio Sci,Act	1-2016/2017
Comp 109	Principles of Programming	BSc Computer Sc.	1-2016/2017
Comp 205	System Analysis & Design	BSc Comp. Sc &IT	1-2016/2017
Comp 309	Design & Analysis of Algorithms	BSc Computer Sc.	1-2016/2017
Comp 313	Data Mining & Warehouse	BSc Computer Sc.	1-2016/2017
INFT 411	Information Retrieval and XML Data	BSc Comp. Sc & IT	1-2016/2017
Comp 421	Industrial Attachment	BSc Comp. Sc & IT	2-2016/2017
Comp 410	Compiler Construction & Techniques	BSc Computer Sc.	2-2016/2017
Comp 104	Programming With C++	BSc Comp. Sc & IT	2-2016/2017
Comp 204	Advanced Database System	BSc Computer Sc	2-2016/2017
Comp 304	Human Computer Interaction	BSc Computer Sc.	2-2016/2017
Comp 306	Theory of Programming Languages	BSc Computer Sc	2-2016/2017

Comp 314	Research Methods	BSc Comp. Sc & IT	2-2016/2017
UENR 103	Computer Literacy and IT	REE,Bio,Stats	1-2017/2018
Comp 205	System Analysis & Design	BSc Comp. Sc &IT	1-2017/2018
Comp 313	Data Mining & Warehouse	BSc Computer Sc.	1-2017/2018
Comp 309	Design & Analysis of Algorithms	BSc Computer Sc.	1-2017/2018
INFT 417	Research Sem. & Proposal Writing	BSc Comp. Sc. & IT	1-2017/2018
INFT 411	Information Retrieval and XML Data	Comp. Sc & IT	1-2017/2018
DCSC 206	Industrial Attachment	Comp. Sc & IT	1-2017/2018
Comp 410	Compiler Construction & Techniques	BSc Computer Sc.	2-2017/2018
INFT 104	Computer Ethics	BSc Comp. Sc & IT	2-2017/2018
INFT 312	Information Storage and Mgt	BSc Comp. Sc & IT	2-2017/2018
Comp 314	Research Methods	Comp. Sc & IT	2-2017/2018
Comp 306	Theory of Programming Languages	BSc Computer Sc.	2-2017/2018
Comp 418	Project Work	BSc Comp. Sc & IT	2-2017/2018
DCSC 107	Computer Ethics	Dip In Comp Sc.& IT	1-2018/2019
UENR 103	Computer Literacy and IT	Comp Eng, Biological	1-2018/2019
Comp 109	Principles of Programming	BSc Computer Sc.	1-2018/2019
Comp 061	Principles of Programming	Dip In Comp Sc.	1-2018/2019
INFT 411	Information Retrieval and XML Data	BSc Comp. Sc & IT	1-2018/2019
Comp 421	Industrial Attachment	BSc Computer Sc.	1-2018/2019
INFT 104	Computer Ethics	BSc Comp. Sc & IT	2-2018/2019
Comp 410	Compiler Construction & Techniques	BSc Computer Sc	2-2018/2019
Comp 306	Theory of Programming Languages	BSc Computer Sc	2-2018/2019
Comp 418	Research Methods/Project Work	BSc Comp. Sc & IT	2-2018/2019
DINT 103	Computer Ethics	Dip. Comp Sc. & IT	1-2019/2020
DSCS 109	Principles of Programming	Dip. Comp Sc. & IT	1-2019/2020
UENR 103	Computer Literacy and IT	BSc Biological Sc.	1-2019/2020
Comp 109	Principles of Programming	BSc Computer Sc.	1-2019/2020
INFT 411	Information Retrieval and XML Data	BSc Comp. Sc & IT	1-2019/2020
Comp 421/078	Industrial Attachment	BSc Computer Sc.	2-2019/2020
Comp 410	Compiler Construction & Techniques	BSc Comp. Sc.	2-2019/2020
INFT 104	Computer Ethics	BSc Comp. Sc & IT	2-2019/2020
Comp 306	Theory of Programming Languages	BSc Computer Sc	2-2019/2020
Comp 418	Project Work	BSc Comp. Sc & IT	2-2019/2020

### iii. Supervision of Student's Project work/Thesis/Research

a. Number of undergraduate projects supervised (2020)	-	3
b. Number of diploma projects (2020)	-	5
c. Number of undergraduate projects supervised (2019)	-	7
d. Number of diploma projects (2019)	-	12
e. Number of undergraduate projects supervised (2018)	-	10
f. Number of undergraduate projects supervised (2017)	-	5

### **3.2 Senior Applications Programmer (Programming in COBOL and SQL)**

#### **(Equivalent to Senior Assistant Registrar)**

The West African Examinations Council,  
P.O.Box 917,  
Exams Loop,  
Ridge Accra,  
Ghana.

a. Previous **Status & Date:** Senior Assistant Registrar      **Oct 2005 - July 2012**

### **3.3 Billing Manager (Telco's Billing System's Administrator)**

Millicom International (GH) Ltd  
PMB,  
Barnes Road Accra, Ghana.

#### **Status & Date:**

- |                      |                              |
|----------------------|------------------------------|
| a. Billing Assistant | <b>Feb. 2000 – Nov 2002</b>  |
| b. Billing Manager   | <b>Nov. 2002 – Feb. 2004</b> |

### **3.4 Barclays Bank of Ghana Ltd (Life Operations Support Officer)**

Head office  
John Evans Atta Mills High St,  
Accra.

**Status & Date:** Systems Support      **Jan 1999 – Feb 2000**

## **04. SPECIAL ASSIGNMENTS/COMMUNITY SERVICE**

### **i. COMMUNITY SERVICE-ADMINISTRATIVE AND TECHNICAL EXPERIENCE**

- |  |                           |
|--|---------------------------|
| a. Coordinator for Seminars, Research and Projects, Dept of Computer Science and Info. | <b>June 2015 to 2017</b>  |
| b. Departmental Rep. for Sch. Of Science Board   | <b>June 2015 to 2017</b>  |
| c. Coordinator Top-Up Program Dep't Computer Sc. & IT                                  | <b>Nov. 2017 to 2020</b>  |
| d. Coordinator Students Attachment Sch. Of Science                                     | <b>Sept. 2017 to 2018</b> |
| e. Academic Counselor Dep't of Computer Sc. & Info.                                    | <b>Sept. 2015 to Date</b> |
| f. University Academic Board Rep. Computer Sc. & Info.                                 | <b>Sept. 2018 to Date</b> |
| g. Coordinator Students Attachment Dep't Computer Sc. & IT                             | <b>Sept. 2018 to Date</b> |
| h. Examinations Invigilator for the University   | <b>Sept. 2014 to Date</b> |

### **ii. COMMITTEES SERVED**

- |  |                          |
|--|--------------------------|
| a. <b>University of Energy &amp; Natural Resources, Sunyani, Ghana</b> |                          |
| 1. Member, Needy Fund Committee, Rep. Sch. of Sciences                 | <b>Dec 2014 to Date.</b> |
| 2. Member, School of Sciences Board                                    | <b>May 2015 to Date</b>  |
| 3. Member, Dept of Computer Science                                    | <b>Oct 2014 to Date</b>  |

- |  |                               |
|--|-------------------------------|
| 4. Member, Investigations Committee of Univ.<br>Students Information System (USIS) | <b>Mar. 2017 to Apr. 2017</b> |
| 5. Member of Academic Board  | <b>Sept 2019 to Date</b>      |
| 6. Member Dep't Strategic Planning Committee                                       | <b>Sept 2019 to Date</b>      |
| 7. Member Top-Up Program Results Committee   | <b>May 2019 to Date</b>       |

**b. WAEC**

- |                        |                               |
|------------------------|-------------------------------|
| 1. Member, IT projects | <b>Aug. 2006 – July 2012.</b> |
| 2. Member, Programming | <b>Aug. 2005 – July 2012.</b> |

**c. Millicom**

- |                                   |                         |
|-----------------------------------|-------------------------|
| 1. Head of Billing Team           | <b>Nov. 2003- 2004.</b> |
| 2. Billing System's Administrator | <b>Feb. 2000- 2003</b>  |

**i. COMMUNITY SERVICE**

<b>Organizer</b> , Nandom Youth Forum.	<b>Mar. 2008 to Feb. 2010</b>
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**05. TRAINING PROGRAMMES AND WORKSHOPS ATTENDED (with dates)**

- i. **“PROFESSIONAL CERTIFICATION IN VARIOUS IT CONCEPTS”.** Organized by NIIT, Accra, from Oct 2007 to March 2008.
- ii. **ORACLE DATABASE DESIGN AND PROGRAMMING WITH SQL,** Oracle Academy, Ghana-Korea Centre 15th Feb. to 17th Feb.2016.
- ii. **“DATA MANAGEMENT (BIG DATA) TRAINING.** A 5-Day Training organized by the International Business Machines (IBM), West Africa held at the National Council for Tertiary Education, Accra between May 30<sup>th</sup> to June 3<sup>rd</sup>, 2016.
- iii. Workshop on **Introduction to Systems Modeling with Universal Modeling (UML)** held in Engineering Guesthouse (KNUST, Kumasi) from 10<sup>th</sup> – 15<sup>th</sup> August 2017.
- iv. **The Instructional Skills Workshop (ISW) Community** under Vancouver Island University organized on UENR campus from January 30<sup>th</sup> to February 2<sup>nd</sup>, 2018.
- v. Workshop on **Cyber security trends in Ghana,** Accra conference Center, from 5th - 9th Feb 2018
- vi. Workshop on **Capacity Building in Curriculum Development** On 27th September 2018
- vii. Workshop on **Good Assessment Practices in Higher Education: Improving Teaching and Learning** held at the Sheila's Executive Hotel from 16<sup>th</sup> – 17<sup>th</sup> Jan 2019

**06. MEMBERSHIP OF PROFESSIONAL BODIES**

- i. Member, Ghana Computer Society

**2014**

**07. RESEARCH INTEREST/COMMISSIONED PROJECTS**

i. **Completed**

- a. Big Data and Databases Systems
- b. Data mining
- c. Information Security
- d. Information Retrieval
- e. Human Computer Interaction (HCI)
- f. Data Analytics

ii. **In Progress (PhD Theses)**

- a. Big Data Predictive and Prescriptive analytics modeling in climate forecasting : A Clustering and Dimensionality Reduction Approach of a case study in Ghana.

**08. PUBLICATIONS**

i. **Journals Articles in Print**

- a. P.Appiahene, **Christopher Bombie Ninfaakang**: Cloud Computing Technology Model for Teaching and Learning of ICT: *International Journal of Computer Applications (IJCA June 2016 Edition) – ISBN: 973-93-80893-38-5*
- b. Adekoya , A. F. **Christopher Bombie Ninfaakang** & Takyi, A. (2015). Harnessing Big Data Analytics for Sustainable and Renewable Energy Development in West Africa: A Critique of Some Big Data Projects.
- c. Obed Appiah , Ezekiel M Martey, **Christopher B Ninfaakang**: Improving Performance of Colour-Histogram-Based CBIR using Bin Matching for Similarity Measure
- d. Obed Appiah <sup>1</sup>, Ezekiel Mensah Martey <sup>2</sup>, **Christopher Bombie Ninfaakang**<sup>1</sup>: Content Based Image Retrieval Framework for Classification of Cocoa Beans
- e. Obed Appiah <sup>1</sup>, Dominic Otooy <sup>2</sup>, **Christopher Bombie Ninfaakang**<sup>1</sup>: Framework for Prioritizing Contact Tracing and Mass Testing of COVID-19 using Graph Theory
- f. Nicodemus Songose Awarayi, Obed Appiah, Benjamin Asubam Weyori, **Christopher Bombie Ninfaakang**: A digital image watermarking using dwt and l-shaped tromino fractal encryption

ii. **Journal Articles Submitted for Publication/Under-Review**

- Harnessing Big Data Analytics for Sustainable and Renewable Energy Development in West Africa: A Critique of Some Big Data Projects.

iii. **Books/Monographs and Chapter in Books**

Yet to

iv. **Papers in Refereed Conference Proceedings**

- a. Peter Appiahene, **Christopher Ninfaakang Bombie**, & Takyie Augustine Design and Implementation of Online-Learning platform with a large class size. Case study at University of Energy and Natural Resources-Ghana. In a *conference on Teaching large classes: Conference proceedings in The Inn at Virginia Tech and Skelton Conference Centres Virginia Tech, Blacksburg, Virginia* July 21, 2016
- b. A. F. Adekoya<sup>1\*</sup> **C. B. Ninfaakang**,<sup>\*\*</sup> A. Takyi<sup>\*\*\*</sup> Harnessing Big Data Analytics for Sustainable and Renewable Energy Development in West Africa: A Critique of Some Big Data Projects. In Special Issue : *Proceedings of 1 st Hydropower Conference 2015. Sustaining Hydropower Energy for Economic Growth and Development in West Africa* JENRM-ISSN 2026-6189

v. **Academic Research Projects**

- a. B.Sc Computer Science Research Work: Unpublished.
- b. M.Sc. Computer Science Dissertation. To be published  
**Thesis output: Implementing Security Using Cryptographic Algorithms in Adaptive Distributed Networks**
- c. PhD in Computer Science Ongoing Research  
**Thesis Title: Big Data Predictive and Prescriptive analytics modeling in climate forecasting: A Clustering and Dimensionality Reduction Approach of a case study in Ghana.**

**10. MAJOR CONFERENCES ATTENDED WITH PAPERS READ**

- i. **Lectures held in the framework of the project “Miteinander forschen,voneinander lernen:Austausch in Forschung und Lehre zwischen der UENR in Ghana und der HFR in BadenWürttemberg”**, held at the University of Applied Forest Sciences in Rottenburg, Germany: 20<sup>th</sup> May to 24<sup>th</sup> May 2019. The project was funded by the Baden-Württemberg-Stiftung.
- ii. **International Conference on Teaching Large Classes: The Inn at Virginia Tech and Skelton Conference Center Virginia Tech, Blacksburg, Virginia**  
Peter Appiahene, Christopher Ninfaakang Bombie, & Takyi Augustine, *University of Energy and Natural Resources-Ghana*. Design and Implementation of Online-Learning platform with a large class size. Case study at University of Energy and Natural Resources-Ghana. July 21, 2016
- iii. **++1<sup>st</sup> International Conference on Hydropower Energy in West Africa. Theme: Sustaining Hydropower Energy for Economic Growth and Development in West**



**Africa.**

Adekoya , A. F. **Ninfaakang, C. B.** & Takyi, A. (2015). Harnessing Big Data Analytics for Sustainable and Renewable Energy Development in West Africa: A Critique of Some Big Data Projects. A paper presented at a conference Jointly organized by University of Energy and Natural Resources, Sunyani, Ghana and University of Ibadan, Ibadan, Nigeria at Sheilla's Lodge, Sunyani, Ghana between 12-14 November 2015.

**11. EXTRA CURRICULAR ACTIVITIES:** Football, Reading and Travelling

**12. REFEREES**

Prof. Adebayo Adekoya  
(Professor, HOD Comp. Science and Acting Dean Graduate School, UENR), University of Energy and Natural Resources, Sunyani Ghana  
Email: [adebayo.adekoya@uenr.edu.gh](mailto:adebayo.adekoya@uenr.edu.gh)

Tel: +233546169166

Prof. Emmanuel Marfo-Owusu  
(Former Dean School of Sciences, UENR),  
University of Energy and Natural Resources, Sunyani Ghana  
Email [emmanuel\\_jp@yahoo.com](mailto:emmanuel_jp@yahoo.com)

Tel: +233-200144345

**SIGNATURE:**

**DATE:** October 2020.

