

OBJECTIVE

Committed, vision-oriented, and motivated Computer Science student with strong interpersonal skills looking to gain experience in the technology field and other working fields, and to take on projects to solve problems all over the world.

EDUCATION

University of Texas Rio Grande Valley	Expected Graduation: May 2024
Bachelor of Science in Computer Science	Overall GPA: 4.00
Minor in Honor's Program	
Minor in Cybersecurity	

Awards

President's List	Fall '20, Spring '21, Fall '21, Spring '22
Learning Center Employee of the Month	March, 2022
Accepted into UTRGV Honor's College	July, 2021
UTRGV Presidential Scholarship	August, 2020 – Present
F&C Guerra Scholarship Recipient	Fall '22

RELEVANT COURSEWORK: Computer Science I & II, Calculus I & II, Computer Organization & Assembly, Programming in Linux, Discrete Mathematics, Algorithms & Data Structures, Objected Oriented Programing in Python

RESEARCH PUBLICATIONS

- Dimakis, Nicholas, Eric Baldemar Jr, **Kofi Nketia Ackaah-Gyasi**, and Madhab Pokhrel. "*Optical properties and simulated x-ray near edge spectra for Y2O2S and Er doped Y2O2S.*" Materials Today Communications (2022): 104328.
- Dimakis, Nicholas, Eric Baldemar Jr, **Kofi Nketia Ackaah-Gyasi**, and Madhab Pokhrel. "*Dataset for electronic and optical properties of Y2O2S and Er dopped Y2O2S calculated using density functional theory and simulated x-ray near edge spectra.*" Materials Today Communications (2022): 108671

WORK EXPERIENCE

Physics Department, Student Project Associate	July, '22 – Present
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- Work in the development of a Virtual Reality artifact to be used in Physics classes and labs. This VR device will be used by the Physics department to reduce the amount of required physical participation in labs and facilitate learning processes.

Computer Science Department, Teaching Assistant	July '22 – August '22
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- Assist Computer Science instructors in administering knowledge to 35 students taking Computer Science 2 course. I was responsible for reviewing concepts learned in class, providing office hours to students, and helping increase the pass rate of the class by 17%

UTRGV Learning Center, Student Academic Tutor	January '22 – July '22
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- Worked as a Peer-Led Team Learning (PLTL) leader responsible for tutoring Computer Science 2 and General Chemistry 1 students. I worked with 2 instructors in total and was responsible for reviewing concepts learned in class, providing office hours to about 76 students, and helping increase the pass rate of the class by 17%

UTRGV Writing Center, Student Academic Tutor	July, '21 – May, '22
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- Worked with instructors in the Writing and Language Studies program as a peer tutor for their students. I worked with 4 instructors in total, and about 90 students in total helping them improve their overall grade by 15%.

Master's Educational Institute, Chemistry Tutor	October, '19 – March, '20
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- Taught about 36 first year high school students General Chemistry course and assessed them by means of weekly tests, which helped improve their general performance in school by 7%

VOLUNTEER EXPERIENCE AND ACTIVITIES

Research with Dr. Nicholas Dimakis, Physics and Astronomy Dept. Chair	February, '22- Present
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- Part of a research team examining the optical and electronic properties of undoped and doped yttrium oxysulphide (Y₂O₂S) by Computational and Density Functional Theory analysis. We have published two papers, said above

- Molecular Science Software Institute (MoLSSI) Python Best Practices Workshop, *Reviewer*** **July, '22 - Sept '22**
- Listed as a contributor alongside 88 fellow contributors on the GitHub page of the Python Best Practices Workshop by MoLSSI. I assisted a team as part of the annual review and revision of the workshop materials.
- Molecular Science Software Institute (MoLSSI) Computational Chemistry Workshop, *Participant*** **June, 2022**
- Participated in a workshop at Rice University, where we used programming concepts in Python and Density Functional Theory methods to analyze data to draw conclusions about molecular interactions.
- UTRGV Student Government Association, *Sen. for the College of Eng. and Computer Science*** **July'22 - Present**
- Elected as the Senator for the College of Engineering and Computer Science and serve as a representative of the largest college in UTRGV, about 45% of student population, to the Student Government Association. I help address the needs of the college and promote effective communication between the students at the college and the appropriate authorities.
- Potter's City Family Chapel, *Protocol, Transportation and Logistics Coordinator*** **February, '22- Present**
- I coordinate the movement of people and church equipment to and from the place of service every Friday and Sunday, as well as ensure that the service runs properly and orderly.
- Ambassadors of Christ, *President*** **August, '22- Present**
- Engage students in Bible discussion and teaching of the Bible, administer orientation to new members, engage in outreach activities, and organize Christian fellowship meetings.
- Teens Aloud Foundation, *Treasurer and Activities Representative*** **July, '21- July, '22**
- I was responsible for balancing the finances of Teens Aloud Foundation, a Christian youth organization, and organizing fun and engaging activities for the members during meetings
- The Society of Collegiate Leadership, *Distinguished Scholar*** **February, 2022-Present**
- Recognized for my distinguished academic efforts, and part of a national community of student leaders.
- Frontera Devs, *Member*** **January, 2022-Present**
- Work with fellow computing enthusiasts to build programming skills and establish a network
- Eco Rio Environmental Studies Symposium, *Presenter*** **November 11, 2021**
- Presented my study on the Edinburg Scenic Wetlands and World Birding Center at a university-wide event
- National Society of Leadership and Success, *Member*** **October, 2021-Present**
- Part of a national honor society to build up leaders to produce influential people in society.
- NovaRhet Undergraduate Research Symposium, *Presenter*** **April 24, 2021**
- Presented my study on the Edinburg Scenic Wetlands and World Birding Center at a university-wide event
- Honor Society, *Member*** **February 2021 – January, 2022**
- Participate in meetings, collaborate with others to encourage student success, and community engagement
- Ambassadors of Christ, *Recruitment Coordinator*** **March 2021 – Present**
- Administer orientation to new members, engage in outreach activities, and organize Christian fellowships.
- Ghana Red Cross Society, *Executive Member*** **September 2017 – May, 2019**
- Assisted injured individuals, administered first-aid to athletes and taught students good first-aid practices.

SKILLS & CERTIFICATIONS

C++ Programming, Programming in Linux, Python, Ruby and Rails, HTML and CSS, Flask, C#, Animation creation with Unity, Assembly language, Microsoft Office Word, PowerPoint, Excel bilingual – fluent in English, Ghanaian language (Twi)