Kofi Nketia Ackaah-Gyasi

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OBJECTIVE

I am a 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 Date: May 2024
Bachelor of Science in Computer Science Overall GPA: 4.00
Minor in Cybersecurity

Honors/Awards

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

RELEVANT COURSEWORK: Introduction to Deep Learning, Automata & Formal Languages, Introduction to Data Science, Database Design & Implementation, Organization of Programming Languages, Algorithms & Data Structures, Objected Oriented Programing in Python, Software Engineering, Computer Science I & II, Calculus I & II, Computer Organization & Assembly, Programming in Linux, Discrete Mathematics

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

PROJECTS

- An anime recommendation system that recommends a set of anime based on a user's previously viewed anime, producers of those anime, rating and many other factors. A huge set of data was given and through data cleaning processes and refactoring, the recommendation model was created in Python.
- Pose Estimation Model using React, Python and TensorFlow. A model that is designed to obtain access to the webcam of a computer and map out the movement of a human being using skeletal lines.
- Software Engineering Project that required the detailed analysis of a program's documentation, in order to make corrections to the documentation and to fix issues with the software itself using REST, Ruby, Rails, and Jira collaborative software
- An Instagram clone project with log-in, sign-up, "like" a post, and view a profile feature designed using Ruby, Rails, and. REST practices.
- A Hangman game project designed using Ruby, Rails, and REST practices

WORK EXPERIENCE

University of Texas Rio Grande Valley Physics Department, *Student Project Associate* Jul 2022 – Present

- Collaborates in the development of a Virtual Reality (VR) artifact to be used in Physics classes and labs to reduce the amount of required physical participation in labs and facilitate an efficient learning process.

UTRGV Computer Science Department, *Teaching Assistant* Jul 2022 – Aug 2022

- Assisted Computer Science instructors in administering knowledge to 35 students taking Computer Science 2 courses. Responsible for reviewing concepts learned in class, providing office hours to students, and increased the pass rate by 17%.

UTRGV Learning Center, *Student Academic Tutor* Jan 2022 – Jul 2022

- Worked as a Peer-Led Team Learning (PLTL) leader responsible for tutoring Computer Science 2 and General Chemistry 1 students. Reviewed concepts learned in class, provided office hours to about 76 students, and helped increase the pass rate by 17%

UTRGV Writing Center, *Student Academic Tutor* Jul 2021 – May 2022

- Assisted 4 instructors in the Writing and Language Studies program as a peer tutor. Overlooked about 90 students, improving overall grades by 15%.

STUDENT LEADERSHIP AND ACTIVITIES

UTRGV Student Government Association, *Sen. for the College of Eng., and Computer Science* Jul 2022 – Present

- Serves as a representative of the largest college in UTRGV, about 45% of student population. Addresses the needs of the college by promoting effective communication between students at the college and appropriate staff.

Research with Dr. Nicholas Dimakis, Physics and Astronomy Dept. Chair, *Researcher* Feb 2022– Present

- Examines the optical and electronic properties of undoped and doped yttrium oxysulphide (Y2O2S) by Computational and Density Functional Theory analysis.

Ambassadors of Christ
President Aug 2022 – Present

Recruitment Coordinator Mar 2021 – Aug 2022

- Engages students in Bible discussion and teaching of the Bible, administers orientation to new members, engages in outreach activities, and organizes Christian fellowship meetings.

The Society of Collegiate Leadership, *Distinguished Scholar* Feb 2022 – Present

Potter's City Family Chapel, *Protocol, Transportation and Logistics Coordinator* Feb 2022 – Present

- Coordinates movement of people and equipment to and from the place of service every Friday and Sunday.

Frontera Devs, *Member* Jan 2022 – Present

Major League Hacking Hack Research 2022, *Participant* Dec 2022

- 1st Place winner out of 30 students in the undergraduate competition

Molecular Science Software Institute (MoLSSI) Python Best Practices Workshop, *Reviewer* Jul 2022 – Sept 2022

- Listed as a contributor alongside 88 fellow contributors on the GitHub page of the Python Best Practices Workshop by MoLSSI. Assisted a team as part of the annual review and revision of the workshop materials.

Teens Aloud Foundation, *Treasurer and Activities Representative* Jul 2021 – Jul 2022

Molecular Science Software Institute (MoLSSI) Computational Chemistry Workshop, *Participant* June 2022

- Participated in a workshop at Rice University, utilizing programming concepts in Python and Density Functional Theory methods to analyze data and draw conclusions about molecular interactions.

NovaRhet Undergraduate Research Symposium, *Presenter* Apr 2021

- Presented study on the Edinburg Scenic Wetlands and World Birding Center at a university-wide event.

SKILLS

Programming Languages: C++, C#, Python, Ruby, HTML, CSS, Assembly Language

Technical Literacy: Programming on Linux OS, Ruby on Rails, Agile and REST methodology, Flask, Animation (Unity), Microsoft Office (Word, PowerPoint, Excel), Zoom

Language: Bilingual – fluent in English, fluent in Ghanaian language (Twi)