Isaac Asare

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Education

Campbellsville University

BSc in Computer Science and Mathematics, GPA: **4.00**   **Expected Dec 2023**

Relevant Courses: Object Oriented Programming and Data Structures, Linear Algebra, Discrete Computational Mathematics, Computer Concepts and Applications, Networks, Systems Engineering*, Web Development*

Skills

Programming Languages: Python, Java, JavaScript, MySQL
Tools and Technologies: HTML, CSS, Bootstrap, jQuery, Git, Heroku, Flask, Agile, REST APIs

Experience

Engage Scholar   Jun 2021– Aug 2021
Pinterest
- Completed coding and optimization challenges using **Python** and CoderPad environment
- Worked with a mentor to achieve technical and professional growth while attending workshops on skill development

Software Engineer Intern   Jun 2021 – Aug 2021
Sponsors for Educational Opportunity
- Developed a web app using **Flask** and REST APIs, and maintained a **MySQL** Database
- Scraped data from existing websites and made visualizations of them using **Python**, **MySQL,** and **Jupyter Notebook**
- Improved Research team's efficiency in analyzing data by implementing various useful data visualizations on different data sets using **Python's Matplotlib Library**
- Developed and integrated **unit and integration tests** into an existing code base, improving robustness by **40%**

Undergraduate Researcher   March 2021 – Present
Molecular Dynamics Lab, Campbellsville University
- Analyzed the dynamic and structural properties of transmembrane proteins by developing **Python** and **Tcl** scripts
- Confirmed the transmembrane residues as well as C and N Termini residues of the KCNE3 transmembrane protein

Web Developer Assistant   Jun 2020 – Dec 2020
Campbellsville Technology Centre
- Updated and maintained Campbellsville University's main IT website by deploying **HTML**, **CSS**, and **Bootstrap**
- Assisted Professors in setting up for both in-person and online lessons by troubleshooting and resolving any hardware/software issues

Projects

CodeGram (*Python(Flask), MySQL, HTML, JavaScript*)
Developed a social media web app designed to enable Tech enthusiasts to find useful information quickly and to make collaboration with other enthusiasts easier.

Spot-Gentre (*Python(Flask), MySQL, HTML*)
Utilized Spotify's API to build a program that tells users the various genres of preferred artistes as well as their popularity index across the globe.

Facediaries (*HTML, CSS, Bootstrap*)
Facediaries is a mock website I created to function as a hybrid of Tinder and Facebook where couples would interact and share tips and advice on how to sustain relationships.

Campus Involvement

Google Developer Student Club Chapter Lead, Campbellsville University   Sep. 2020 - Present
Student Tutor, Campbellsville University   Sep. 2020 - Present
Sigma Zeta National Science and Mathematics Honor Society, Campbellsville University   Sep. 2020 - Present
Senior Residential Advisor, Campbellsville University   Jan. 2021 - Present