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, Networks, Systems Engineering, Web Development, Computer Architecture, Operating Systems

Skills

Programming Languages: Python, Java, JavaScript, MySQL, PHP
Tools and Technologies: Android Development, HTML, CSS, Bootstrap, Git, Flask, Agile, REST APIs, Figma

Experience

Facebook (Meta), *Meta University Software Engineer Intern*   May 2022 – Aug 2022
- Designed and developed an **Android app** utilizing **Java** that introduced users to meals all over the world including a step-by-step guide on how to prepare the dishes and be able to leave reviews.
- Utilized the Spoonacular **API** to constantly fetch novel recipes for users and employed Back4App as the back end for data storage, query, and user authentication.
- Tested code for robustness, usability, and general reliability analysis.

Sponsors for Educational Opportunity, Software Engineer Intern   Jun 2021 – Aug 2021
- 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%**

Jane Street Capital, *Focus Participant*   March 2022
- A selective program where undergraduate students are invited to learn more about Jane Street Capital.
- Participated in workshops and activities to gain insights into trading, software engineering, and how they relate and are useful to the firm's daily operations.

Pinterest, *Engage Scholar*   Jun 2021– Aug 2021
- 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

Molecular Dynamics Lab, Campbellsville University, *Undergraduate Researcher*   March 2021 - Present
- 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
- First Author on published paper: <u>Analysis of the Structural and Dynamic Properties of KCNE3</u>

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-Genre | *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. 2021 – May 2022
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