

# ISAAC ASARE

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## EDUCATION

### Campbellsville University

Expected Graduation Date: Dec 2023

- Candidate for Bachelor of Science in Computer Science and Mathematics, GPA: **4.0/4.0**
- Relevant Courses: Object Oriented Programming, Data Structures and Algorithms, Linear Algebra, Discrete Mathematics, Computer Architecture, Operating Systems, Web Development
- Chapter Lead, Google Developer Student Club
- Gold Medalist, Kohlberg-Manacher Foundation Professional Excellence Scholarship Program

## EXPERIENCE

### Google LLC, *Software Engineer Intern*, Kirkland, WA

May 2023 - Aug 2023

- Developed and implemented a robust protocol buffer method and RPC service, optimising data transmission efficiency and enhancing system performance
- Created a comprehensive testing suite, ensuring reliability and functionality of newly developed API endpoint, resulting in increased product stability
- Integrated new endpoint with an Admin Platform, and authored Python scripts and playbooks for existing UI to use endpoint, streamline administrative tasks, and contribute to platform's user-friendly functionality

### Meta Platforms Inc., *Meta University Software Engineer Intern*, Seattle, WA

May 2022 - Aug 2022

- Designed and developed Android app, utilising Java, introducing users to meals all over the world including a step-by-step guide on how to prepare various dishes and leave reviews
- Utilised 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

### Molecular Dynamics Lab, Campbellsville University, *Undergraduate Researcher*

March 2021 - Present

- Analysed the structural properties of transmembrane proteins by developing Python and Tcl Scripts
- Confirmed the transmembrane residues as well as the C and N Termini residues of the KCNE3 protein
- First author on published paper *Analysis of the Structural Dynamic Properties of KCNE3*

### Jane Street Capital, *Focus Participant*, New York, NY

March 2022

- 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

### Sponsors for Educational Opportunity, *Software Engineer Intern*, Remote

Jun 2021 - Aug 2021

- Developed web app using Flask and Rest APIs, and maintained MySQL Database
- Scraped data from existing websites and made visualisations using Python and Jupyter Notebook
- Developed and integrated unit and integration tests into existing code base, improving robustness

### Pinterest, *Engage Scholar*, Remote

Jun 2021 - Aug 2021

- Completed coding and optimization challenges using Python and Coderpad environment
- Worked with mentor to achieve professional growth and attended workshops on skill development

## TECHNICAL SKILLS

- Programming Languages: Java, Python, JavaScript, Typescript, SQL, PHP
- Tools and Technologies: Android Development, HTML/CSS, Bootstrap, Agile, Git, Mercurial, Flask, Rest APIs, Angular, gRPC, Protocol Buffers, Jupyter Notebook