

# Kwasi Sarfo Fosu

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## EDUCATION

**Ohio State University College of Arts and Sciences**

Columbus, Ohio

*B.S. in Computer and Information Systems, Minor in Information Security | GPA: 3.578 | Expected Graduation: May 2026*

**Coursework:** Programming Java, Calculus I, Software I, Software II, Data Structures & Algorithms I

## TECHNICAL SKILLS

**Programming Languages:** Java, Python, C, HTML, XML, Subversion (SVN), CSS, JavaScript

**Technology/Skills:** Eclipse, Git, Linux

## PERSONAL & TECHNICAL PROJECTS

**Personal Website** | HTML + JS + CSS + React + TailwindCSS | <https://kwqsi.net/>

- Developed a dynamic personal portfolio website to showcase my skills and projects.
- Learned and leveraged HTML, JavaScript, CSS, React, and TailwindCSS to create an engaging, responsive platform that highlights my passions and expertise in software development.
- Implemented advanced front-end techniques to ensure a seamless, aesthetic user experience while managing state and style with React and TailwindCSS, respectively.

**Word Hunt** | C

- Developed a "word hunt" game in C implementing algorithms to search for words in a matrix in eight different directions, enhancing problem-solving and algorithmic skills.
- Utilized static arrays, pointers, and string handling in C to efficiently manage memory and perform string comparisons, demonstrating proficiency in low-level programming and data structure manipulation.
- Employed rigorous testing and debugging techniques to ensure the reliability of the program.

**Map with Hashing** | Java

- Developed a Map data structure in Java utilizing a layered hashing algorithm, where each bucket in the hash table is itself a Map object, showing innovative use of data structures and algorithms to optimize search efficiency and handle collisions.
- Tested and debugged the implementation by developing detailed test plans based on specifications, ensuring the correctness and reliability of essential operations such as add, remove, and search within the Map.

**Glossary** | Java + HTML

- Developed a Glossary application in Java that generates a group of HTML files from an input text file, including a top-level index and separate pages for each term and its definition, showing knowledge in file I/O and HTML content generation.
- Implemented alphabetical sorting of terms and navigation links within the glossary, enhancing user experience by providing easy access to term definitions and related terms.
- Designed the application to handle user input for file paths and output folder locations, ensuring flexibility and ease of use for generating glossaries from various sources.

**Program and Statement Parser** | Java + BL

- Developed a recursive-descent parser for the BL language as part of a team project, demonstrating proficiency in compiler design and implementation.
- Worked with members of a team utilizing a repository to share and collaborate on code.

## LEADERSHIP & PROFESSIONAL DEVELOPMENT

**Management Leadership for Tomorrow** | Career Prep Fellow

January 2024 – Present

- Accepted into a selective 18-month professional development program for high-achieving diverse talent
- Complete business case studies to grow leadership and technical skills
- Attend conferences hosted by industry leaders, such as Deloitte, LinkedIn, Apple, Netflix, Jane Street, and Target

**ColorStack Ohio State Chapter:** *Executive Board Member / Corporate Chair*

August 2023 - Present

- Foster members of engineering students to increase the number of Black and Latinx students get degreed and hired
- Lead all corporate connections between Ohio State's chapter and corporate connections (ex. JP Morgan & Chase and Adobe)

**The Ohio State University** | Residential Advisor

August 2023 - Current

**Ohio State University's Center of African Studies:** *Ambassador*

April 2024 – Present

**Morrill Scholarship Early Arrival Host:** *Peer Leader*

August 2023 – Present

**National Society of Black Engineers (NSBE):** *General Member*

August 2022 – Present

## INTERESTS

- **Career:** Machine Learning, Research, Website Development, AI Development, Software Engineering
- **Personal:** Photography, Competitive Gaming, Volunteering, Cultural Diversity, Anime, Fashion, Culinary Studies