

ANNIA MATTHEWS

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EDUCATION

Howard University | B.S. in Computer Science, expected May 2024 Washington, D.C.
Coursework: Data Structures and Algorithms, Python Programming, Object-Oriented Programming, Applied Data Science, UX Design, Cybersecurity, Database Management, Software Engineering

WORK EXPERIENCE

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- Reddit, Inc.** | *Software Engineering Intern* Summer 2023
- Used TypeScript and the Reddit API to build a raffle application for subreddits that randomly selects a winner from comments under a post, providing an innovative solution to facilitate giveaways and contests
 - Utilized React JSX to craft a responsive custom post component, enhancing the readability of AMA ("Ask Me Anything") posts by showcasing up to 1000 answered questions in a responsive and user-friendly format
- Natural Hazards Engineering Research Infrastructure** | *Research Assistant* Summer 2021
- Worked with mentors from UCLA and UT Austin 4 times a week to develop an algorithm on Jupyter notebooks that estimates ground motion intensity at 600 earthquake-induced soil liquefaction sites
 - Used SQL to query quantitative information from 100% of the sites in the Next Generation Liquefaction Database to statistically back our research

PROJECTS

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- Yardhack at the Black Blockchain Summit** September 2022
- Won 1st place out of 3 teams at a hackathon by working with 2 colleagues to develop and pitch a high-level system design for a mobile NFT marketplace targeted towards reducing the likelihood of fraud occurrence within the art industry by 50%
 - Enhanced my knowledge of Blockchain/Web3.0 related concepts by performing a comparative analysis on CPU/GPU mining and proof-of-work/proof-of-stake, respectively
- Dijkstra's Algorithm Implementation** November 2022
- Enhanced my knowledge of iterative algorithmic processes by implementing Dijkstra's Algorithm in C++ to optimize the path taken between 2 coordinate points by 100%
 - Utilized the priority queue/min heap data structure to keep record of the shortest distance between any 2 graph indexes throughout the process

LEADERSHIP EXPERIENCE

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- Howard University Tech 4 Change Club** | *Project Lead* January-May 2023
- Hosted and organized various technical and non-technical events in partnership with at least 3 on-campus organizations each semester
 - Made financial vision for the organization, reducing both event and promotional item costs by 20%

ACTIVITIES AND AWARDS

Activities: Howard Bisonettes Dance Ensemble ('22-'23), Howard Chapter Institute of Electrical and Electronic Engineers ('22-'23), MLT Turn Pro ('23)
Awards: Howard University Capstone Scholar ('20-'23), Brivo NextGen Scholar ('22), Splunk HBCU Scholarship Recipient ('23)

SKILLS

Technical: Python, C/C++, JavaScript, MySQL, Git, Figma, TypeScript, NodeJS, React JSX
Soft: Written/Oral Communication, Problem Solving, Team Building, Adaptability