

# HASSAN ALHASSAN

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## EDUCATION

**M.S. Information Technology** May 2024  
Arizona State University, Tempe, AZ, United States of America 4.00 GPA

**Bs. Computer Science** June 2023  
Ashesi University, Eastern Region, Ghana 3.91 GPA

## TECHNICAL SKILLS

**Programming Languages:** Python, JavaScript (with HTML & CSS), Java, C++, PHP, R

**Frameworks:** ReactJS, Laravel, Bootstrap, ORM, Material - UI

**Tools, Databases, and OS:** MySQL, NoSQL, Git, GitHub, Excel, Visual Studio

## PROFESSIONAL EXPERIENCE

**Arizona State University, AZ: Research Intern, United States** 06/2023 - present

- Conducted a comprehensive quantitative analysis and extensive literature review to investigate the influence of research funding on the enrollment of black students in engineering doctoral programs in American institutions
- Analyzed the ASEE dataset and finding a positive correlation between research funding expenditures and enrollment of black students in engineering doctoral programs (**R programming**)
- Synthesized quantitative analysis and literature review to enhance understanding of diversity in engineering education

**Known pay: Software Engineering Intern, Australia** 05/2021 - 08/2021

- Designed the logical database of the system, and implemented queries for deletion, update, insertion, and displaying of dynamic data for each unique user (**MySQL**)
- Co-built the company's official website from scratch using ReactJS that enables users to navigate the services provided by the company and join the waitlist (**ReactJS**)
- Implemented the Bitcoin and Ethereum payment stacks, which exposed users to many reliable payment systems and enhanced both user experience and payment flexibilities by more than 30% (**TypeScript + React + MySQL**)

**Pejrock Media Consult: Software Engineering Intern, Ghana** 05/2020 - 08/2020

- Developed an efficient administrative webpage for tracking user data, deadlines, employees, and assets, resulting in over 40% improvement in inventory and asset tracking (**HTML, CSS, JavaScript, PHP, MySQL**)
- Created a relational database for efficient storage and management of assets, appointments, media consultations and boosting query operations by over 23% (**MySQL**)

## RELEVANT PROJECTS

**Career Buddy, Senior Year Capstone** Spring 2023

- Built a system to help universities in Ghana to streamline their career communications and services, using Ashesi University as a case study (**ReactJS, SQL, Laravel**) <https://career-buddy-capstone.web.app>
- Accelerated resume creation and review process, career opportunities exploration, and booking for career mentorship by students by 60% through an easy-to-navigate user interface
- Enhanced student career interactions and improved the services of the Ashesi Career Center by over 50%

**Told, Personal Project** Summer 2021

- Built a cross-functional platform that allowed natives of Tamale, Ghana to upload environmental problems to a public site for leaders (Members of Parliament) to attend to them <https://github.com/alhassan-hassan/Told>
- Significantly reduced the time taken for environmental problems to be noticed and attended to by 50%

## LEADERSHIP & CO-CURRICULAR ACTIVITIES

**Code The Change: President** 01/2021 - 12/2021

- Designed a curriculum that equipped over 100 high school students in Ghana with basic technology and coding skills
- Raised \$2000 in funds to purchase laptops, enabling participating students to engage in real-time active learning

## ACHIEVEMENTS / AWARDS

- Overall 2<sup>nd</sup> Best Graduating Student, Ashesi University 06 / 2023
- Best Graduating Computer Science Student, Ashesi University 06 / 2023
- Winner of Career Fair Coding Challenge, Ashesi University 03 / 2022
- MasterCard Foundation Scholarship Recipient, Ashesi University & Arizona State University 08 / 2019 - current