

Stanley Asoku Hayford



hayfordstanley@gmail.com



+233270048319



[linkedin.com/in/stanley-asoku-hayford-320b67106](https://www.linkedin.com/in/stanley-asoku-hayford-320b67106)



<https://hayfordstanley.vercel.app>

Summary

Experienced Teaching Assistant & Full Stack Developer | Bridging Theory and Practice

As a dedicated Teaching Assistant with over 4 years of experience in a university setting, I have honed my ability to facilitate meaningful learning experiences for students. Guiding them through complex concepts, fostering critical thinking, and providing personalized support, I am passionate about cultivating a dynamic educational environment.

My time as a Teaching Assistant has equipped me with exceptional communication skills, enabling me to bridge the gap between theoretical knowledge and real-world applications. I take pride in breaking down intricate subject matter into digestible segments, empowering students to grasp and apply foundational principles effectively.

Complementing my academic background, I am a proficient Full Stack Developer with a practical understanding of web and application development. With hands-on experience across frontend and backend technologies, I am adept at translating design concepts into functional, user-centric interfaces.

Leveraging my technical acumen, I collaborate seamlessly with cross-functional teams to bring innovative digital solutions to life. My expertise spans HTML, CSS, JavaScript, React.js, Node.js, and MongoDB, enabling me to architect robust systems and deliver exceptional user experiences.

Whether it's crafting responsive user interfaces, optimizing database performance, or implementing secure authentication, I am committed to producing high-quality code that aligns with industry best practices.

My LinkedIn profile is a testament to my journey as an educator and developer, reflecting my dedication to academic excellence and my drive to push the boundaries of digital innovation. Let's connect to explore potential collaborations, exchange insights, and contribute to the ever-evolving realms of education and technology.

Experience



Teaching Assistant

Academic City University College

Jul 2018 - Jan 2023 (4 years 7 months)

As a Teaching Assistant (TA) in a computer science department, your role is to provide support to the instructors and students in various aspects of the courses. Here are some common roles and responsibilities of a TA in a computer science department:

1. **Assisting in Lectures:** TAs may assist professors during lectures by helping with demonstrations, explaining concepts, or answering students' questions.
2. **Leading Lab Sessions:** TAs often lead lab sessions where students can apply the concepts learned in lectures through hands-on exercises and programming assignments. TAs provide guidance, answer questions, and offer technical assistance during these sessions.

3. **Grading and Feedback:** TAs are responsible for grading assignments, exams, and projects. They provide constructive feedback to help students improve their understanding and skills.
4. **Office Hours:** TAs hold regular office hours where students can ask questions, seek clarification, and discuss course material. This one-on-one interaction helps students grasp difficult concepts.
5. **Online Forums and Communication:** TAs may moderate online discussion forums, chat groups, or email lists to facilitate communication among students and address their queries.
6. **Preparing Course Materials:** TAs assist in preparing course materials such as lecture slides, lab instructions, and assignment descriptions. They may also develop code examples and sample solutions.
7. **Supervising and Mentoring:** TAs guide students in their projects, research, and assignments. They offer mentorship, suggest resources, and provide guidance on best practices.
8. **Assisting in Experiments and Research:** In some cases, TAs support professors in conducting experiments, research projects, or specialized workshops related to computer science.
9. **Supporting Accessibility:** TAs may work with students with disabilities to ensure they have equal access to course content and can participate fully in the learning process.



Full Stack Engineer

Dev Track

Jan 2022 - Present (1 year 8 months)

Roles of a Full Stack Developer using MERN Stack for Mobile and Web Applications

Introduction:

In today's rapidly evolving digital landscape, Full Stack Developers hold a pivotal role in the development of both web and mobile applications. With the rise of cross-platform technologies, the MERN stack (MongoDB, Express.js, React.js, Node.js) has gained significant popularity for its ability to create feature-rich, scalable, and responsive applications. A Full Stack Developer utilizing the MERN stack is responsible for various critical roles that contribute to the entire development lifecycle, from concept to deployment. This article explores the multifaceted roles and responsibilities of a Full Stack Developer specializing in MERN stack for both web and mobile applications.

1. Application Architecture and Design:

A Full Stack Developer using the MERN stack plays a fundamental role in architecting the overall structure of applications. This involves designing the application's database schema, defining RESTful APIs, and creating a robust backend architecture using Node.js and Express.js.

2. Frontend Development:

Full Stack Developers are responsible for creating visually appealing and interactive user interfaces using React.js for both web and mobile applications. They build reusable components, implement responsive designs, and ensure a seamless user experience across various devices and screen sizes.

3. **Backend Development:**

Backend development involves designing and building the server-side logic of applications using Node.js and Express.js. Full Stack Developers set up routes, handle HTTP requests and responses, manage authentication and authorization, and integrate with databases, often using MongoDB for its flexibility and scalability.

4. **Database Management:**

Full Stack Developers manage the application's data storage by creating and optimizing databases using MongoDB. They define data models, implement CRUD (Create, Read, Update, Delete) operations, and ensure data consistency and security.



Frontend Web Developer

Geometry

Aug 2022 - Mar 2023 (8 months)

A Frontend Engineer using React.js is responsible for creating and maintaining the user interface of web applications. React.js is a popular JavaScript library for building user interfaces, and frontend engineers who specialize in React.js play a crucial role in developing interactive and visually appealing web applications. Here are the key roles and responsibilities of a Frontend Engineer using React.js:

1. **User Interface Development:** Develop and implement user interface components and features using React.js, translating design mockups and wireframes into responsive and dynamic web interfaces.
2. **Component Architecture:** Design and build reusable, modular UI components that can be easily integrated across different parts of the application, promoting code efficiency and maintainability.
3. **State Management:** Implement state management using React's built-in state and props or external libraries like Redux to manage and synchronize data between different components and ensure a consistent user experience.
4. **API Integration:** Integrate frontend components with backend APIs and services to fetch and display data, and handle asynchronous operations effectively.
5. **Responsive Design:** Ensure that web applications are responsive and compatible with different devices and screen sizes, using techniques like media queries and flexible layout design.
6. **Performance Optimization:** Optimize the performance of the application by implementing techniques like lazy loading, code splitting, and minimizing render and reflow operations to enhance user experience and page load times.
7. **Accessibility:** Develop web applications that are accessible to users with disabilities by following accessibility guidelines and best practices, and testing applications with assistive technologies.
8. **Testing and Debugging:** Write unit tests and integration tests to ensure the stability and functionality of components. Debug and fix issues in the UI, optimizing the



Full-stack Developer

Vien Health

Jun 2021 - Dec 2021 (7 months)

Regularly inspected server code for speed optimization.

Conceptualized and implemented solutions for data storage.

Improved the quality of the team's code through writing unit tests and automation.

Collaborated and worked closely with the product and design team to understand better the end-user requirements.

Configured the backend usability of all front side application.

Provided code documentation and other inputs to technical documents

Integrated user-facing elements developed by front-end developers with server-side logic

Provided code documentation and other inputs to technical documents

Participated in code reviews

Troubleshooting and debugging to optimise performance



Teaching Assistant

Kwame Nkrumah University of Science and Technology, Kumasi

Sep 2017 - Aug 2018 (1 year)

Education



Zero To Mastery Academy

Go Programming Language

Jul 2023 - Jul 2023



Zero To Mastery Academy

Vue Developer 2023: Zero to Mastery (Pinia|Vitest), Computer Science

Jun 2023 - Jul 2023



Kwame Nkrumah University of Science and Technology, Kumasi

Computer engineering, Computer Engineering

2013 - 2017



Zero To Mastery Academy

Licenses & Certifications



Basic Problem Solving Skills - HackerRank



Hackerrank Basic Python Certification - HackerRank



Hackerrank Basic Javascript Certification - HackerRank



Java Basic Certification - HackerRank



M001 MongoDB Certification - MongoDB



M121: The MongoDB Aggregation Framework - MongoDB



Docker for absolute beginners - Hands on - KodeKloud



Responsive Web Design - freeCodeCamp



Python for beginners - Learn all the basics of python Python for beginners -
Udemy



Learn Go Course - Codecademy



Learn PHP Course - Codecademy



Learn TypeScript Course - Codecademy

Skills

Rust (Programming Language) • C++ • Algorithms • Web Development • Unit Testing • Version Control • University Teaching • Data Structures • Back-End Web Development • Databases