**Alexander Tesfay Habte**

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**EDUCATION AND CERTIFICATIONS**

**CS50’s Introduction to computer science Harvard University (via edX)**

*Verified Certificate Issued, August 26 2024*

* **Concentrations:** Problem solving, computational thinking, and foundational computer science concepts.
* **Topics Covered:** Data Structures & Algorithms, abstraction, encapsulation, security, software engineering, web development and databases.
* **Achievements:** Successfully completed all problem sets and final project, demonstrating intermediate understanding in C++, python, SQL, and other tools.

**Meta Front-end developer Meta on coursera**

*Front-end developer Issued, December 12 2024*

* **Concentrations:** Designed and built responsive websites, developed dynamic front-end applications, Leveraged the Bootstrap CSS Framework to create modern webpages and managed repositories using git and github.
* **Skills Gained:** HTML, CSS, Javascript, React, UX/UI Design, Version Control Systems (VSC), QA, How the internet works
* **Achievements:** Built portfolio-ready projects during the capstone, showcasing proficiency in modern front-end development techniques.

**PROJECTS**

**Automation and Data Integration Projects**

*Developer**Aug 4 2024*

* Built a Selenium-based automation bot for a booking website to streamline hotel searches by dynamically applying filters (e.g., star ratings), utilizing retries, explicit waits, and robust error handling for reliability in handling real-world DOM changes.
* Developed a real-time cryptocurrency data fetching and storage system using the CoinMarketCap API and MySQL, implementing error handling and logging to ensure continuous, seamless data retrieval and storage of key metrics such as price, market cap, and volume.

**React Testing Library project**

*Developer Nov 6 2024 – Nov 12 2024*

* Implemented robust unit and integration tests using React Testing Library, verifying component functionality including user input handling, state updates, and dynamic class application in a simple to-do list application.
* Enhanced testing coverage by simulating user interactions, asynchronous rendering, and component lifecycle scenarios, ensuring high-quality code and adherence to React best practices.

**Nextj.s Cypress Testing project**

*Developer Jan 10 2025*

* Developed and executed end-to-end and component tests using Cypress for key application features, including accordion functionality, API interactions, and multi-page navigation.
* Optimized test efficiency with custom Cypress commands and intercepts, ensuring robust coverage and high-quality application behavior.

**Playwright Testing project**

*Developer Jan 08 2025*

* Designed and executed automated end-to-end tests using Playwright, validating UI functionality, cross-browser compatibility, and responsive design for a Todo application and other web pages.
* Verified key application behaviors, including data persistence, user interactions, and navigation, ensuring high-quality user experiences and robust software performance.

**SKILLS**

**Programming:** Java, Python, JavaScript, HTML/CSS, MySQL, Node.js, React.js, C++, C, Next.js, Typescript

**Tools:** IntelliJ, PyCharm, Eclipse, Git, Bootstrap, Agile, Tailwindcss, CI

**Social:** Gym, chess, Good-communication, Dance, Outdoor-events