Mikiyas Mesfin Legesse

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EDUCATION

New York University, New York, US   *Sept. 2022 – Expected May 2026*

- Major*: B.S. Computer Science;* Minors: *Mathematics and Cybersecurity*
- Relevant Coursework: *Object-Oriented Programming, Computer Architecture & Organization, Data Structures and Algorithms, Computer Networking, Discrete Mathematics, Data Analysis, Foundations of Technology Management*
- Clubs: *EESA, NSBE, BSU, ASU*
- Activities: ColorStack

WORK EXPERIENCE

Software Engineer Intern, **Shady Grove Group LLC,** Addis Ababa, Ethiopia   *June - August 2023*

- Acquired in-depth understanding of Learning Management Systems (LMS) development through immersive experiences shadowing seasoned software developers
- Developed a weather application utilizing Angular alongside JavaScript and HTML/CSS, demonstrating practical application of a contemporary software development methodology.
- Adopted the Scrum Agile methodology, during daily check-up meetings with the intern's and developer's team.

PROJECTS

EPL Fixture Forecast | *Django, React.js, Python, JavaScript, HTML/CSS*   *Feb - March 2024*

- Developed and launched a dynamic website providing Premier League betting odds for upcoming fixtures and the current standings.
- Utilized Django REST framework for backend development, orchestrating data updating for the table and RESTful API implementation when performing CRUD operations on the Team models.
- Utilizing React for the frontend, creating an "easy-on-the-eye" user interface for displaying Premier League standings, fixtures, betting odds, and recent form over several pages.
- Integrating third-party EPL APIs to fetch and update the betting odds, form, and fixture information weekly.

E20 Cache Simulator | *C++, Linux*   *March - April 2024*

- Engineered a cache simulator for an E20 processor, enabling the execution of machine code instructions, cache evictions/loading, and accurate simulation of its behavior, by utilizing OOP techniques.
- Implemented parsing of machine code based on 17 different instructions, ensuring seamless loading into memory and precise interpretation, with 100% efficiency.
- Developed the executable for the simulator, compiling the C++ code on a Linux platform, and conducting rigorous testing and debugging to validate functionality.

Cybernetic Glasses | *Arduino/C++, Python, Linux*   *Feb - May 2023*

- Created a pair of robust smart glasses that had the capability to capture photos via Pi camera and touch sensor, which then uploaded the images in real time to the user's Google Drive.
- Integrated an Adafruit Microphone to autonomously receive audio signals, every 5 seconds, from the surrounding area and send the decibel levels to the server computer via Bluetooth.
- Programmed a Python and C++ script for the Raspberry Pi and Arduino Nano for optimal functionality.

Nifty Currency Converter | *JavaScript, HTML/CSS*   *Sept - Oct 2023*

- Developed a responsive web-based currency converter Chrome Extension with access to over 20 currencies.
- Ensured access to live exchange rates by utilizing an Exchange Rate API, which updates the exchange rates hourly.

LEADERSHIP EXPERIENCE

External Vice President, **NYU National Society of Black Engineers,** New York, US   *May 2024 - Current*

- Coordinated communication and collaboration between the NYU NSBE chapter and external organizations, including corporate sponsors and community partners.
- Led initiatives to enhance member engagement and professional development through structured networking events, workshops, and mentorship programs.
- Headed funding initiatives and sponsorships by managing external partnerships, ensuring the chapter's sustainability and growth.

Vice President, **Ethiopian Eritrean Student Association,** New York, US   *Dec 2023 - Current*

- Oversaw organization's operations, ensuring alignment with mission and goals.
- Managed room reservations and scheduling for meetings and events, optimizing resource utilization.
- Led event logistics, including procurement and budget management, ensuring seamless execution of club activities.

SKILLS

Programming: Python, C++, C#, JavaScript, Java, HTML/CSS, SQL, Verilog, Bash
Tools: VSCode, PostgreSQL, CLion, PyCharm, Django, SpringBoot, React.js, x86, Web Scraping