

Aaron Sintayehu

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EDUCATION

University of Maryland

Bachelor of Science in Information Science

College Park, MD

Aug. 2023 – May 2025

Montgomery College

Associate's in Information Science

Silver Spring, MD

Aug. 2021 – May 2023

EXPERIENCE

Linear Regression | *Python, pandas, Matplotlib, tkinter*

December 2022

- Developed a linear regression machine learning model using Python programming language
- Utilized matplotlib for data visualization and pandas for data manipulation and preparation
- Implemented the model using scikit-learn, a popular machine learning library for Python
- Trained and tested the model using a relevant dataset, ensuring its accuracy and performance

Pomodoro Plus | *Python, Tkinter, Turtle*

November 2022

- Created a Pomodoro study timer using Python programming language and Tkinter library for the graphical user interface (GUI)
- Designed the layout and functionality of the timer, including features such as customizable work and break intervals, and a progress bar to track time remaining
- Utilized Tkinter widgets and layout management techniques to implement the GUI
- Tested and debugged the timer to ensure it was functioning correctly
- Demonstrated the ability to utilize Python and Tkinter to create a functional and user-friendly application.

State Trivia Challenge | *Python, pandas, Matplotlib, tkinter*

October 2022

- Developed a state capital guessing game using Python programming language and the Turtle library for the graphical user interface (GUI)
- Utilized pandas for data management, including importing and organizing the list of state capitals
- Created a game interface using Turtle graphics, including a display of the current score and input fields for guessing the capital of a given state
- Implemented game logic to track and update the score, provide feedback on correct and incorrect guesses, and end the game when all capitals have been guessed
- Tested and debugged the game to ensure it was functioning correctly
- Demonstrated the ability to utilize Python, pandas, and Turtle to create a functional and interactive game.

SecretSender | *Java, JavaFX, Swing, JUnit*

June 2022

- Developed a GUI-based tool for creating Bellaso and Caesar ciphers using Java programming language and the JavaFX and Swing libraries for the graphical user interface (GUI)
- Implemented the logic for creating both ciphers, including the ability to specify a key for the Bellaso cipher
- Utilized JavaFX and Swing to design and layout the GUI, including input and output fields for text and the selected cipher
- Created buttons for encrypting and decrypting text, as well as a drop-down menu for selecting the desired cipher
- Tested and debugged the tool to ensure it was functioning correctly
- Demonstrated the ability to utilize Java, JavaFX, and Swing to create a functional and user-friendly application.

TECHNICAL SKILLS

Languages: Python, HTML/CSS, JavaScript, SQL (MySQL)

Frameworks: Bootstrap, Node.js, TensorFlow, Keras, Express.js, jQuery, FastAPI

Developer Tools: Git, VS Code, Visual Studio, PyCharm, IntelliJ IDEA, Eclipse

Libraries: tkinter, pandas, NumPy, TensorFlow, Matplotlib, React