

EFRATA GEBREMICHAEL

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EDUCATION

The College of Wooster

Bachelor of Arts in Computer Science, minor in Data Science and Mathematics

Wooster, OH, USA

Expected Graduation: May 2024

- GPA: 3.76
- **Honors:** Distinguished Harvard WECODE Tech Fellow, Dean's List Honors, Pi Mu Epsilon: National Mathematical Honor Society
- **Relevant Coursework:** Software Engineering Databases, Machine Intelligence, Data Structures and Algorithms, User Interface Design, Algorithm Analysis, Theory of Computation, Computer Architecture, Linear Algebra, Combinatorics and Graph Theory, Applied Statistics, Data Visualization, Multivariate Calculus.

TECHNICAL SKILLS

Languages/Frameworks: Python, C, C++, JavaScript, HTML/CSS, React, Angular, R, Java, Dart

Database/Tools: Git, Linux, SQL, Tableau, Docker, Spark, Hadoop, Postman, Figma

RELEVANT EXPERIENCE

Software Engineering Intern

May 2022 - July 2022

The Goodyear Tire & Rubber Company

Akron, OH

- Led a cross-functional team to design and implement an interactive 3D visualization feature into the tire wear analysis software to improve usability.
- Integrated over 10 new features into the platform to improve the analysis of wear data across different types of maneuvers and provide comparative analysis.

UI/UX Design Intern

August 2023 - December 2023

Appy.yo

Vancouver, CA

- Revitalized the company's main webpage and app using key design principles and conducted 10 usability tests on the target audience to improve user engagement and accessibility.
- Presented 6 design prototypes and ensured flawless implementation across iOS, Android, and web platforms to meet client's demands and achieve uniform website appearance and optimal functionality on various devices.

Junior Independent Study Mentor

January 2024 - Current

The College of Wooster

Wooster, OH

- Advising 49 junior computer science students through the entire process of conducting their thesis to improve their research skills.
- Synthesizing multiple programming languages and frameworks to provide customized coding assistance and debugging solutions to effectively meet complex project requirements and significantly advance students' research and prototype development.

Teaching Assistant

August 2022 - Current

The College of Wooster

Wooster, OH

- Enhancing 200+ students' performance and understanding across multiple computer science and data science courses by holding office hours and review sessions to improve exam scores and homework completion.
- Fostering an inclusive learning environment and bridging faculty-student communication by accommodating diverse backgrounds and learning styles to ensure personalized academic support.

RELEVANT PROJECTS

InstaMatch: Influencer Recommendation System for Targeted Apparel Brand Marketing | PySpark, TensorFlow, Postman

August 2023

- Conducting a senior undergraduate independent thesis on creating an AI marketing tool to analyze influencer data and recommend partnerships for asos, scheduled to be completed in March 2024.
- Incorporated asos's API with Instagram influencer datasets to design and optimize influencer marketing strategies through machine learning algorithms.

Student Engagement App for the College of Wooster | Flutter, Dart

April 2023

- Developed a mobile app using Flutter, Firebase authentication, and Google Maps API, offering real-time shuttle tracking and dining details for 2000+ Wooster students, streamlining campus life.

Personalized Curly Hair Care Website | HTML, JavaScript, CSS

November 2022

- Built a user-centric website using HTML, CSS, and JavaScript, offering customized hair care advice through an interactive quiz and recommendations from a database of over 100 vetted products, simplifying hair care routines.

Optimal Spam Filtering Algorithm | Python, scikit-learn

March 2022

- Implemented KNN, Naive Bayes, and SVM machine learning models in creating a spam email filter yielding an optimal accuracy of 98.6%.

Library Management System | Python, Flask, MySQL, HTML, JavaScript

April 2021

- Developed a library management system, handling a collection of 10,000+ books, and improved librarian efficiency.

LEADERSHIP / MENTORSHIP

Math and Computer Science Peer Mentor: Mentored 30+ students, providing guidance in class scheduling and career planning.