

Kibron Tesfatsion

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EDUCATION

University of Maryland, College Park

Major: Bachelor of Information Science

Master of Information Management

College Park, MD

Expected May 2025

Expected May 2026

TECHNICAL SKILLS

Languages/Packages: Python, SQL, HTML, CSS, Pandas, Numpy, PySpark, Scikit-learn, Scipy, Bootstrap

Data Visualization: Plotly, Seaborn, Tableau, Matplotlib, Figma, Power BI

Other Tools: Amazon Web Services, MySQL Workbench, Jupyter Notebooks, Adobe Creative Cloud, Excel

PROFESSIONAL EXPERIENCE

College of Information

College Park, MD

Research Assistant

October 2023 – March 2025

- Utilized SQL and Python to analyze data from dozens of College Park residents and create insightful visualizations
- Developed a Python script to merge transcript segments by speaker, reducing manual review time by 20% and producing clear, formatted documents for analysis
- Planned and taught weekly classes on emerging technology to 13 elders, documenting their interactions and providing detailed notes to support emerging research
- Conducted and transcribed interviews of participants with mild cognitive impairment, totaling more than 130,000 words across 290 pages

College of Information

College Park, MD

Front-End Developer

October 2023 – May 2024

- Maintain and update University of Maryland research websites through HTML, CSS, and JavaScript catering to 100s of visitors a month
- Utilize Figma to create intuitive and senior-friendly designs and interfaces
- Collaborate with professors and Ph.D. candidates to integrate multiple websites and enhance user experience

Department of Information Technology

College Park, MD

Website Quality Assurance

June 2023 - August 2023

- Utilized HTML and CSS to fix bugs on University websites, accessed by thousands of students each week
- Collaborated with developers by documenting and sharing improvement notes for ELMS-Canvas and University websites, enhancing communication and functionality
- Evaluated and analyzed 300+ web pages for their alignment with University relevance and accuracy
- Utilized Impact by Instructure to analyze patterns and trends from millions of user inputs

University of Maryland, College Park

College Park, MD

Teaching Assistant

August 2023 - Present

- Taught over 400 students about information technologies, the evolution of the information society, and methods for assessing information needs.
- Developed quiz and exam questions for over 300 students to assess their understanding of course material
- Produced, recorded, and edited instructional videos for a 300-level course, benefiting over 60 students
- Enhanced student engagement by leading study sessions and assignment support during office hours

PROJECTS

Social Media Engagement Analysis and Hypothesis Testing

- Conducted exploratory analysis of social media engagement data, calculating key metrics (comments, average reactions, shares, etc.) to identify trends and patterns.
- Performed hypothesis tests and Z-tests, comparing action vs. non-action movie metascores and validating changing public opinions on climate change, demonstrating advanced data analysis skills
- Created visualizations (histograms, scatter plots, etc.) to analyze correlations between reactions, shares, and comments, and uncovered insights into engagement with various post types

IMDb Data Analysis and Predictive Modeling

- Analyzed the IMDB dataset to explore relationships between movie ratings, metascores, and gross earnings, using scatterplots to visualize data and calculate the Pearson correlation coefficient.
- Built regression models to identify key patterns and applied the interquartile range (IQR) method to detect and remove outliers, improving data accuracy.
- Demonstrated proficiency in data visualization, correlation analysis, and regression modeling to derive actionable insights for the entertainment industry