MEDHA BULUMULLA

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OBJECTIVE

To utilize my analytical, computational, research, and coding experience to improve quality of lives.

EDUCATION

Cornell University — Aug 2020-Dec 2023

Bachelor of Science, Planned Master of Professional Studies in Information Science. GPA: 3.6

Relevant Courses

- Intermediate/Introductory Design & Programming for the Web, Data-Driven Web Applications, Human-Computer Interaction, Building Inclusive Computing Organizations, Object-Oriented Programming & Data Structures, Data Mining & Machine Learning, Introduction to Data Science, Introduction to Computer Science, Consequences in Computing, Probability Models and Inference, Biological Statistics I-II, Calculus I-III, Linear Algebra.
- Spring 2022/In Progress: Networks, Communication & Technology.

COURSE PROJECTS

- Created an interactive world map on Olympic Medals and a static visualization on Chocolate Consumption using D3.js in a three-person team collaborating on GitHub.
- Developed a Python model using statistical methods analyzing food insecurity, socio-economic, and health indicators to predict COVID-19 vaccination rates in a four-person team collaborating on GitHub.
- Designed and implemented a store website for my small business using PHP, SQL, CSS, and HTML. It relied on an SQL database and supported tagging, log-in/log-out, and editing/deleting entries.

WORK EXPERIENCE

Webmaster/Research Assistant — Jan 2021 ∼

Cornell University, Dyson School of Business

- Data cleaning, analysis, and probabilistic matching of Supplemental Nutrition Assistance Program (SNAP) and Food Bank of the Southern Tier (FBST) data using Python (Python Record Linkage Toolkit).
- Utilized dataset collection and machine learning techniques to develop an Agri-food Systems Technologies and Innovations Outlook (ATIO) to create a regular flagship publication at the Office of the Chief Scientist at the Food and Agricultural Organization (FAO).
- Worked with International Food Policy Research Institute (IFPRI) to create a Python user guide, website, and learning modules to predict malnutrition and poverty in the Global South on a project funded by United States Agency for International Development (USAID).
- Add relevant content to the website using HTML, CSS, JavaScript, and Bootstrap.

Teaching Assistant, Design & Programming for the Web — Aug 2021 ∼

Cornell University, Ann S. Bowers College of Computing and Information Science

- Teaching Assistant for Intermediate (2300) and Introductory (1300) Design & Programming for the Web
- Instruct students in SQL, PHP, HTML, CSS, and back-end/front-end web design.
- Co-lead a discussion section for 15-20 students, hold office hours, and grade assignments every week.

Research Intern — June 2022-Aug 2022

Southern African Institute for Policy and Research, Zambia

- Research and proposal writing about Small, Micro and Medium Enterprises in Zambia.
- Wrote website accessibility and effectiveness report.

SKILLS

- **Languages:** Javascript (D3.js), PHP, SQL, HTML, CSS, Python (NumPy/pandas/Matplotlib/BeautifulSoup), Java, SPSS, R, LaTeX.
- **Miscellaneous:** GitHub, Visual Studio Code, AndroidStudio, Tableau, Jupyter Notebook/Lab