

MEDHA BULUMULLA

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OBJECTIVE

To utilize my writing, analytical, computational, research, and coding experience to develop innovative solutions

EDUCATION

Cornell University

Aug 2020-May 2023

Bachelor of Science, Information Science, *Data Science Concentration* Major GPA: 3.97; Cumulative GPA: 3.65

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, Networks, Communication & Technology, Probability Models and Inference, Biological Statistics I-II, Calculus I-III, Linear Algebra.
- *Spring 2023*: App Design and Prototyping, Product Management, Computational Sustainability, Inequality via Data Science.

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

Research Assistant

Jan 2021 ~

Cornell University, Dyson School of Business

- Data cleaning, analysis, merging, matching individuals and calculating travel distances of private and public food assistance data using Python.
- Utilized dataset collection and machine learning techniques to develop and write a regular flagship publication in a team of 30 researchers from various institutions.
- Developed a Python user guide, website, and educational modules to teach predicting malnutrition and poverty in the Global South utilizing Multivariate Random Forest Method.

Webmaster

Jan 2021 ~

Cornell University, College of Agriculture and Life Sciences

- Redesign and add relevant content using HTML, CSS, JavaScript, and Bootstrap for 3 research groups.

Teaching Assistant, Design & Programming for the Web

Aug 2021-Dec 2022

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

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