

MEDHA BULUMULLA

mb2569@cornell.edu • +1 5186986007 • Website • LinkedIn

EDUCATION

- Master of Professional Studies, Information Sciences** Jan 2023 - Dec 2023
Cornell University, College of Computing and Information Sciences GPA: 3.98
- Bachelor of Science, Information Sciences with Data Science concentration** Aug 2020 - May 2023
Cornell University, College of Computing and Information Sciences GPA: 3.65
- Honors:** Cum Laude, Distinction in Research

WORK EXPERIENCE

- Application Development Intern** June 2023 - Aug 2023
Dormitory Authority of the State of New York
- Utilize Restful API calls in C# through .NET Framework and SQL stored procedures to extract, transform and load (ETL) data into SQL databases relying on Microsoft SQL Server Integration Services (SSIS) and SQL Server Management Studio (SSMS).
 - Create SQL stored procedures to develop reports from the Oracle database for the Finance teams in SSMS
 - Create a dataset of DASNY related media through webscraping via the Python package, Selenium to develop a report explaining the relationship between project variables and media sentiment.
- Webmaster** Jan 2021 - Dec 2023
Cornell University, College of Agriculture and Life Sciences
- Manage/redesign 3 research group websites using HTML, CSS, JavaScript and Bootstrap hosted on Media3.
 - Interviewing, hiring, and training of new replacement webmaster.
- Research Assistant** Jan 2021 - Dec 2023
Cornell University, Dyson School of Business
- Data cleaning, probabilistic matching, and distance calculations of two large datasets (80,000+ and 30,000 entries) of public and private food assistance for my senior honors thesis using Python and logistic regression.
- Teaching Assistant, Design & Programming for the Web** Aug 2021 - Dec 2023
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 for 15-25 students.

ACADEMIC PROJECTS

- **Microsoft Full stack Course Registration Web App:** Collaborating with a team of Microsoft back-end developers, front-end specialists, and UX researchers to architect and develop full-stack class registration system to meet user requirements, leveraging Microsoft Azure, SQL, GraphQL, REST API calls, Docker, Node.js, and Angular.js. Project managed through a Gantt charts on Monday.com.
- **Store Website with Database Integration:** Designed, implemented, and deployed on Heroku a store website for my hair accessory business relying on a SQL database using PHP, SQL, CSS, and HTML.
- **Food Insecurity Honors Thesis:** Wrote a senior honors thesis titled "Understanding Spatial Patterns of Households' Use of Food Pantries" that relied on a mixed methods study of Institutional Research Board (IRB) approved surveys and logistic regression of probabilistic matched administrative data about New York State food assistance using Python.
- **JavaScript Interactive Visualizations:** Created interactive visualizations using D3.js in three-person teams collaborating on Github: Plant Your Own Produce, Pittsburgh Restaurants, Sentiment Analysis of Tweets, Sleep Cycles, and Olympic Medal Map
- **Data Management for Technology Center:** Developed dimensional data model via Wherecape, data dictionary, ETL source-to-target and produced analysis and Tableau visualizations of financial performance and customer scheduling cancellations for the University's Biotechnology Technology Resource Center.

SKILLS

- **Computer Languages:** SQL, C#, Java, Python (NumPy, Pandas, Matplotlib, BeautifulSoup, Python Record Linkage Toolkit, GeoPy, Selenium), R, LaTeX, PHP, JavaScript (D3.js, Vue.js, Node.js), CSS, HTML.
- **Miscellaneous:** Excel, Tableau, GitHub, Jupyter Notebook, ArcGIS, Visual Studio Code, SQL Server Management Studio, Docker.