# MELISSA J WOMACK

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## Summary

Master's student in Bioinformatics and Computational Biology with skills in programming, algorithm analysis, and data engineering. A passion for developing and contributing to products that impart practical and innovative solutions. Skilled in leadership, teamwork, discipline, communication, and adaptability as demonstrated by previous military experience.

## Technical Skills

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|---|---|---|---|
| C++ | HTML | MongoDB | Git/GitHub |
| JavaScript | CSS | SQL | Responsive Web Design |
| jQuery | Node.JS | API Integration | Bash |

## Education

**Master of Science in Bioinformatics and Computational Biology**                    May 2021
The University of Texas at Dallas, Richardson, TX

**Bachelor of Science in Microbiology**                    May 2018
Texas State University, San Marcos, TX
*magna cum laude*

## Certifications

**Full Stack Web Development Certificate**, The University of Texas at Austin                    October 2018

## Relevant Coursework

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|---|---|
| Algorithm Analysis and Data Structures | Computer Science |
| Database Design | Probability and Statistics for Data Science |
| Machine Learning | Advanced Calculus and Linear Algebra |
| Web Programming Languages | Combinatorics and Graph Theory |

## Experience

**Graduate Student Research**                    February 2020 – December 2020
Department of Biological Sciences, University of Texas at Dallas, Richardson, TX
- Engaged in a comparative genomics study of bacterial samples from postmenopausal women with chronic or recurrent urinary tract infections to illuminate mechanisms of pathogenicity and persistence of the organisms
- Developed skills in data analysis, communication, and project development

**Microbiology Technician**                    February 2019 – August 2019
Clinical Pathology Laboratories, Austin, TX
- Processed and handled over 200 clinical samples a day while adhering to safety protocols and ensuring quality control to provide fast and reliable results for patients
- Assisted in the identification of clinically relevant organisms using biochemical assays and ELISA

**Veterinary Food Inspection Specialist**                    April 2007 – October 2015
United States Army
- Collaborated in creating and implementing a database that kept track of 9.3 million dollars of inventory
- Performed the inspection of food designed for human consumption to preserve the health of soldiers
- Assisted veterinarians with animal medicine during humanitarian missions in remote areas