

MELISSA J WOMACK

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Portfolio: <https://melissajwomack.github.io/portfolio-v2/>

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Summary

M.S. graduate student in bioinformatics and computational biology - computer science track. Anticipated graduation date of May 2021. Focused on improving skills in programming, algorithm analysis, and data engineering. Previous military experience where I gained soft skills in teamwork, discipline, and adaptability.

Skills

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|--------------|-----------|-------------------------------|-----------------------|
| • C++ | • CSS | • SQL | • Git/GitHub |
| • JavaScript | • Node.JS | • MongoDB | • MacOS/Linux/Windows |
| • HTML | • jQuery | • Object-Oriented Programming | • Microsoft Office |
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Certifications

Full Stack Web Development Certificate

July 2018 - Oct 2018

The University of Texas at Austin

- Curriculum included: MERN Stack, Agile Methodology, API Integration, Responsive Web Design, Git/GitHub, Heroku, JavaScript, jQuery, Node.JS, React.JS, HTML, CSS, MongoDB, and MySQL
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Education

Master of Science in Bioinformatics and Computational Biology

Aug 2019 – Present

The University of Texas at Dallas, GPA – 3.61

Bachelor of Science in Microbiology

Aug 2015 – May of 2018

Texas State University, GPA – 3.76, magna cum laude

Relevant Coursework

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|---|---|
| • Algorithm Analysis and Data Structures | • Computer Science |
| • Combinatorics and Graph Theory | • Probability and Statistics for Data Science |
| • Advanced Calculus and Linear Algebra | • Machine Learning – Spring 2021 |
| • Web Programming Languages – Spring 2021 | • Database Design – Spring 2021 |
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Experience

Graduate Student Research

Feb 2020 – Dec 2020

University of Texas at Dallas, Dallas, TX

- Comparative genomics study of bacterial samples from postmenopausal women with chronic or recurrent urinary tract infections
- Developed skills in bash, scripting, data analytics, communication and project development

Microbiology Technician

Feb 2019 – Aug 2019

Clinical Pathology Laboratories, Austin, TX

- Processed and handled over 200 clinical samples a day while adhering to safety protocols and ensuring quality control
- Assisted in the identification of clinically relevant organisms using a wide array of biochemical tests

Veterinary Food Inspection Specialist

April 2007 – Oct 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 and assisted veterinarians with animal medicine