MELISSA J WOMACK

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Summary

M.S. graduate student in bioinformatics and computational biology. 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

- C++
- JavaScript
- HTML
- CSS
- Node.JS
- jQuery
- SQL
- MongoDB
- Python
- Git/GitHub
- MacOS/Linux/Windows
- Microsoft Office

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

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

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

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