Jacob Elnaggar

Professional Experience

LSU SCHOOL OF MEDICINE, NEW ORLEANS, LA
MD/PhD - Student Researcher
June 2018 - Present
• conduct research with Christopher Taylor, PhD. in the department of Microbiology, Immunology, and Parasitology.
• Proficient in analyzing 16S and Shotgun Metagenomic Sequencing in the vaginal microbiota of women

BAYLOR UNIVERSITY, WACO, TX
Bioinformatics Capstone Project,
August 2017 – December 2017
• Worked with Erich Baker, Phd, on his bioinformatics website, Geneweaver.org
• Created an algorithm for users to compare multiple gene interaction networks, allowing biologists to discover underlying patterns in a specific disease

MD ANDERSON CANCER CENTER, HOUSTON, TX
Independent Researcher in
Bioinformatics/Computational Biology
Department,
June 2017 – August 2017
• Internship at the number one cancer research center in the world
• Implemented a computational model that analyzes cancer biopsies and nominates treatment therapies
• Used my combined knowledge of computer science and cancer biology
• Advanced network modeling and machine learning

BAYLOR SCOTT & WHITE MEDICAL CENTER, WACO,
TX Consultant,
January 2017 – May 2017
• Worked in a team to create a database for the hospital
• Designed to store procedure information for a patient before, during,
and after each operation
• User-friendly website as the front end
• Created this using MySQL, PhP, Java Script, and HTML

RESEARCH INTENRSHIP - LSUHSC
Bioinformatician and Genomics Program
June 2016 – August 2016
• Analyzed patient genomic data for predispositions in triple negative breast cancer
• Published manuscript titled, "An Integrative Genomics Approach for Associating Genetic Susceptibility with the Tumor Immune Microenvironment in triple Negative Breast Cancer"

Education

LSU SCHOOL OF MEDICINE, NEW ORLEANS, LA
2018-2022
MD/PhD Candidate

BAYLOR UNIVERSITY, WACO, TX
2014-2018
BS in Bioinformatics 3.9 GPA (Magna Cum Laude)

Relevant course work:
Datamining
Software-Engineering
Biochemistry
Machine Learning
Data Structures
Algorithms
Database Design & Application
Organic Chemistry

Skills and Abilities:
Python
C++, C
Java
R
SQL
Java Script , HTML
Bash
Git
Windows OS, Mac OS, Linux OS

Extracurricular Organizations
Currently held positions:

Student Government Association:
VP - Technology and Education

President - Oncology Interest Group

Co-President - Sling Health New Orleans

VP of Technology - Medical Student Research Committee

Contact

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