

Jacob Elnaggar

Professional Experience

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

LSU HSC BIOINFORMATICS, NEW ORLEANS, LA **Bioinformatician and Data Analyst,** **June 2016 – August 2016**

- Research internship at LSU Health Science Center
- Worked in the Bioinformatics and Genomics program
- Analyzed large sets of patient data for genomic patterns in breast cancer
- Curated a manuscript from the findings that is being published

SOFTWARE ENGINEERING, BAYOR UNIVERSITY, WACO, TX Created an RFID system for an ENT clinic, **August 2016 – December 2016**

- Worked in a team to create a system that utilizes RFID readers in a Head and Neck Surgery clinic
- Part of a Scrum Team
- Created this system using Java and multithreading

LSU HSC, NEW ORLEANS, LA **Researcher in Physiology Department,** **June 2015 – August 2015**

- Research internship at LSU Health Science Center in the Physiology department
- Mapped protein expression in Rhesus Macaque prefrontal cortex to model the effect of combined stimuli using network modeling

Education

LSU SCHOOL OF MEDICINE, NEW ORLEANS, LA **2018-2022** MD 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++
Java
R
SQL
Java Script , HTML
Assembly
CSS
C
PHP , Bash
Visual Studio, Vim, Eclipse, RStudio, Git, IntelliJ, PyCharm
Windows OS, Mac OS, Linux OS
(Ubuntu & Red Hat)

Extracurricular Organizations

- Association of Bioinformatics and Biotechnology
Vice President.

ABB is an academic club designed for bioinformatics students and students who are interested in the fields of bioinformatics and biotechnology.

- Baylor Medical Ethics Discussion Society
Service Officer.

I lead volunteer events in the Waco area, including Mission Waco, and I help our members get involved with service.

- Computer Science/Bioinformatics
Tutor/Mentor

I tutor and mentor freshman Bioinformatics students during their first year at Baylor University.

Contact

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