

OBJECTIVE

Self-taught data analyst with prior engineering degree and previous exposure to healthcare data analytics. Seeking a data science apprenticeship that will allow me to use and to further develop my knowledge and skills in programming and data science.

EDUCATION

Aug. 2016 to
Current

Texas A&M University

Master of Science in Medical Science

Clinical and Translational Sciences Track

Excelled in biomedical informatics and programming coursework

Aug. 2011 to May
2016

University of Houston

Bachelor of Science in Biomedical Engineering

Biomolecular Engineering Track

Graduated with University Honors

EMPLOYMENT

Aug. 2017 to May
2018

Dept of Biomedical Informatics, TAMU**Graduate Research Assistant**

College Station, Texas

- Assisted in programming redaction software to scrub PHI from unstructured medical records text.
- Customized the star schema (using MySQL) of a published and successful biomedical informatics data warehouse for storing redacted medical records data.

May 2015 to Oct.
2016

Dept of Molecular & Cellular Medicine, TAMU**Undergraduate Research Intern (summers)**

College Station, Texas

- Addressed a previously unexplored use of the Ubx protein by developing a protocol to form it into a thermoresponsive hydrogel. Once this invention is developed further, it will be patented.
- Devised a method to impart antimicrobial functionality to Ubx materials.
- Assisted in the development of an optical biosensor using Ubx biomaterials and gold nanoparticles (AuNPs).

Oct. 2014 to Apr.
2015

Dept of Biomedical Engineering, UH**Undergraduate Research Intern**

Houston, Texas

- Implemented a computational metabolic model of *M. tuberculosis*'s TCA cycle/glyoxylate bypass and electron transport chain on MATLAB that utilized enzyme kinetics and gene expression data as parameters.

PROJECTS

Sept. 2018 to
Current

What Does That Emoji Mean?

- Used R to scrape tweets containing specific emojis from via the Twitter API and performed sentiment analysis on the collected data.
- Wrote a data journalism style piece with interactive plots and published on my webpage.
- alexisjcarr.github.io/emoji-project

Aug. 2015 to May
2016

Senior Capstone Project, UH

- Functioned in role of algorithm engineer, developed an improved neural signal decoder algorithm for brain-machine interfacing neuroprosthetics.
- Assumed partial responsibility for technical communications, including producing proposals, reports, and presentation material.
- alexisjcarr.github.io/capstone.pdf

CONTACT

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SKILLS

TOOL SKILLS

- Python
- R
- HTML/CSS
- JavaScript
- SQL
- Matlab
- SAS
- Jupyter
- Excel
- R Markdown
- Git
- Linux
- Virtual Machines

HARD SKILLS

- Statistical Analysis
- Hypothesis Testing
- Web Scraping
- Machine Learning (beginner)
- Sentiment Analysis
- Probability

SOFT SKILLS

- Interpersonal Skills
- Technical Communication
- Critical Thinking
- Problem Solving
- Learning
- Collaboration