

## WILLIAM RICE

(423) 838-8096    warice96@gmail.com

### TECHNICAL SKILLS

Python, SQL, MySQL, Excel, R, JavaScript, D3.js, HTML, CSS, Git, GitHub, MATLAB, Selenium, Jupyter Notebook, Data Science, Data Visualization, Machine Learning, Web Scraping

### EXPERIENCE

#### **Chattanooga Preparatory School — Various Roles** **2019 – 2020**

*(Founded in 2018, Chattanooga Preparatory School is an all-boys charter school serving Chattanooga's urban communities.)*

Tutored 6th and 7th graders in Math (and occasionally English). Served as a substitute teacher for various classes. Ran the after school guitar program before and after the school's transition to an online platform following the Covid-19 outbreak. Assisted with various IT departmental needs during the transition as well as with household care package assembly and delivery.

#### **The Art of Problem Solving — Mathematics Tutor** **2018 – 2019**

*(The Art of Problem Solving is an online school for students excelling in mathematics, physics, or chemistry in grades 5-12.)*

Worked with students to develop their logical reasoning, communication, and strategy for tackling challenging mathematics problems.

#### **UAB Medicine — Data Scientist** **2018**

*(The University of Alabama at Birmingham is an internationally renowned research university and academic medical center.)*

Led a computational biology research project investigating the relationship between the human gut microbiota and obesity. Used R, Python, and Excel to source, process, and analyze complex data with statistical- and machine learning tools. Collaborated with an interdisciplinary team of applied mathematicians, computer scientists, bioinformaticians, and geneticists to design creative solutions to data problems. Evaluated predictive models for biological insight. Communicated results orally, in writing, and with data visualizations for a non-technical audience.

### EDUCATION

#### **Birmingham-Southern College (B.S. Mathematics, Writing Minor)** **2014 – 2018**

- 3.9 GPA, Summa Cum Laude, Phi Beta Kappa
- Honor Council Vice President
- Harrison Honors Program
- Louise Hall and Robert W. Echols Mathematics Award
- Mathematics Faculty Outstanding Senior Award
- Writing Center Tutor