Jared Tesar

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EDUCATION

The University of Texas at Austin, Austin, TX   May 2022
Bachelor of Science in Computational Biology

Certificate in Elements of Computing

Relevant Coursework: Biostatistics, Linear Algebra, Elements of Programming, Probability and Statistics, Elements of Software Design, Computational Biology and Informatics, Principles of Computational Biology, Elements of Graphics and Visualization, Elements of Databases

EXPERIENCE

University of Texas | Austin, TX   September 2021 - Present
Undergraduate Research Assistant to Jeffrey Barrick, Ph.D.
Development of plasmid database
- Constructed and implemented python script for open source additions to plasmid database
  - Adds open-source functionality to growing database to describe and annotate genetic material vectors
  - Foundational work to create an ever-growing database for biology labs around the world
- Designed additional python script to validate potential input files prior to database inclusion

Target | Austin, TX   June 2021 - August 2021
Fulfillment Expert
- Picked items for guest orders accurately and quickly; meeting service and required ship time standards
- Properly prepared, packed and sorted guest orders for shipment using correct materials in a timely manner
- Trained New Fulfillment Hires

PROJECTS

- **Hate Crime and Drug Abuse Data Analysis:** Modeled FBI and CDC data for all 50 states, testing for the relationship between hate crime and drug abuse rates
  - Created correlation coefficient heatmap using the R module 'ggplot'
  - Analyzed principle components, logistic and linear regressions, and MANOVA and randomization testing
- **Genetic Sample Gene Count Analysis:** Modeled genetic data across multiple samples of thousands of genes
  - Evaluated and displayed interactions between genome and sampling time using DESeq and pheatmap
- **Seasonal Effect on Video Game Player Population Analysis**: Modeled player population increases and decreases, testing for relationship between seasons and population size

LEADERSHIP & COMMUNITY INVOLVEMENT

UT Chess Club | Austin, TX   January 2021 - Present
Member
- Participated in bi-weekly meetings where members discussed chess strategies and techniques

Austin Melee | Austin, TX   August 2018 - Present
Member
- Competed in University game matches

Insight | Austin, TX   June 2020 - August 2021
Officer
- Recruited and managed 20-30 active World of Warcraft players nationwide
- Organized and lead group of 20 members 3 nights a week on specific tasks with varying time zones and schedules
- Developed and researched strategic plans that delegated specific tasks to 20-25 members each night

SKILLS

Technical /Computer Skills: Python, CSS, Java/JavaScript, R/RMarkdown, MATLAB, HTML, Pandoc, Markdown, YAML, etc.
Languages: Intermediate Spanish