

Alex Ayala

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EDUCATION

The University of Texas at Austin, Austin, TX

December 2021

Bachelor of Science in Computational Biology

- Computer Science Minor
- Awards & Honors: Recipient, Longhorn Creator's Excellence in Creativity Award (2019), Todd and Belinda Linstrum Scholarship (2020)

TECHNICAL SKILLS

- **Programming:** Proficient in Python, Object Oriented Programming, C++, R, Javascript, Excel; Familiar with Fortran
- **Languages:** Spanish (Fluent)

EXPERIENCE

PyNets, The University of Texas at Austin, Austin, TX

September 2020– Present

Programmer

- Research connectome data from fMRI and dMRI scans can be used to more accurately predict mental illness using Python based supercomputing
- Create and revise unit tests for existing functions to ensure proper outputs
- Initiated transition of software from Linux to Windows

H-E-B, Austin, TX

June 2019 – Present

Sales Associate

- Collaborated with sales associates to ensure high quality transactions.
- Responsible for the inspection and replacement of items not up to company standard.

PROJECTS

- **TankerTot video game** – Created a puzzle shooter video game from scratch in the Phaser 3 engine
- **Exploratory Data Analysis on Baseball All-Stars** – Wrangled and cleaned data using dplyr in R Studio
- **Census Redistricting** – Modeled gerrymandering of group census districts into congressional districts using dynamic C++ programming

CAMPUS INVOLVEMENT

Kappa Kappa Psi – Alpha Tau, Austin, TX

October 2018 - Present

Vice President of Finance

- National honorary fraternity for college band members meant to promote the existence and welfare of the UT Longhorn Band
- Creating and managing chapter budget of over \$25,000
- Approving and planning purchases necessary for our service projects and other chapter supplies