BRIAN NGUYEN

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EDUCATION

The University of Texas at Austin | *BSA in Computer Science* - GPA: 3.80   May 2025
Certificate in Applied Statistical Modeling
Relevant Courses: Data Structures, Computer Architecture, Statistical Learning

SKILLS

Proficient in Java | Familiar with Python and R | Exposed to C, Assembly, Bash, JavaScript, HTML, and CSS | Leadership

PROJECTS

Command Interpreter | C
- Completed a program to evaluate and print expressions with different data types, operations, and variables
- Used explicit memory management and pointer-based structures including Trees, Linked Lists, and Hash Tables

Huffman Coding | Java
- Implemented a program with a partner to compress and decompress files through bit manipulation
- Made a PriorityQueue class and Huffman tree for encoding/decoding, and worked with bit inputs/outputs

Height Prediction Linear Model | Python & PLINK
- Extracted height data from genome analysis using PLINK and Bash scripting to identify 3 key variables
- Developed a Python script for linear regression of height from polygenic score, age, and their interaction term

Influence of Income and Poverty on Theft | R
- Cleaned, tidied, and created databases from online crime reports and housing market datasets
- Performed data wrangling and visualizations to identify correlations between income, poverty, and theft

EXPERIENCE

Harpak Lab - *Undergraduate Student Researcher* | UT Austin   Jan 2024 - May 2024
- Conducted genome-wide analyses using Bash, R, and PLINK on the TACC supercomputer system
- Participated in weekly lab meetings to discuss papers on polygenic scores for insights into current advancements

Liberal Arts and Science Academy - *Tutor* | Austin, Texas   Feb 2022 - May 2024
- Tutored 10+ students in small group sessions several times a week, supporting their academic growth
- Created personalized study plans and provided tailored assistance to meet individual student needs

College Readiness Mentor - *Mentor* | UT Austin   May 2024 - Present
- Guided 250+ incoming students during their transition to college through weekly office hours and online support
- Provided academic resources, tutoring, and general Q&A sessions focused on the College of Natural Sciences

First-Year Interest Group - *Mentor* | UT Austin   Aug 2022 - Dec 2022
- Directed weekly class discussions and provided resources to prepare 20+ first-year students for college
- Collaborated with a staff facilitator to plan discussions and determine materials to share with the students

COMMUNITY INVOLVEMENT

Society of Asian Scientists and Engineers - *Member*   Oct 2021 - Present
Hunger and Homelessness Outreach - *Member*   Oct 2021 - May 2023
UT Outpost - *Volunteer*   Nov 2021 - May 2022

HONORS AND ACHIEVEMENTS

University Honors 2021 - 2024 | Thomas and Elizabeth Merner Scholarship 2022 | Robert E. Boyer Endowed Presidential Scholarship 2023