

Education

University of Texas at Austin

FRESHMAN PURSUING B.S. IN COMPUTER SCIENCE

Austin, TX

Aug. 2018 - Exp. May 2022

- Relevant Coursework: Data Structures, Discrete Math, Vector Calculus

Liberal Arts and Science Academy

HIGH SCHOOL

Austin, TX

Aug. 2014 - May 2018

- Relevant Coursework: AP Computer Science, Advanced Computer Science, Web/Mobile Applications, Independent Study in Computer Science, AP Statistics, Multivariable Calculus

Work Experience

Applied Research Laboratories

SCIENCE AND ENGINEERING APPRENTICE

Austin, TX

Jun. 2018 - Aug. 2018

- Implemented a PostgreSQL database using normalization techniques for the Space and Geophysics Laboratory's inventory
- Created data analysis tools using queries and views to make the previously cumbersome inventory system easy to use
- Automated '.hdf5' system log file generation and parsing for real-time database inserts using C++ and Python, final project poster can be found on [github](#)

City of Austin IT Department (CTM)

SUMMER INTERN

Austin, TX

Jun. 2016 - Jul. 2016

- Led team of other interns in development of an Android application (Asyst) related to elderly care
- Application connected citizens desiring a source of extra income with senior citizens in need of safe transportation and technical assistance
- Utilized Android Studio (Java and XML) in order to develop application as well as Firebase for the back-end, project video on [youtube](#)

Kynplex (Startup)

INTERN

Worked Remotely

Mar. 2016 - May 2016

- Collected and compiled data on hundreds of college research laboratories around the country
- Used Microsoft Excel automation to quickly organize information in the desired format

Projects

Observing Repetition in Speeches Over Time Using the Lempel-Ziv-Welch Algorithm

May. 2018

- Used Python and RStudio to analyze how repetition has increased over time in US presidential speeches, write-up found on [github](#)

Honors & Awards

- | | | |
|------|---|------------------|
| 2017 | Nationals 1st Place: Hovercraft , Science Olympiad Nationals | Wright State, OH |
| 2017 | High School Aerospace Scholar , NASA (Johnson Space Center) | Houston, TX |
| 2018 | Platinum Division , CyberPatriot | Austin, TX |

Skills

WORKING KNOWLEDGE

- Python, Java, C++, Android Studio, Git, \LaTeX , PostgreSQL, HTML, CSS, JavaScript, XML, JSON, Linux/Unix

Extracurricular Activities

Association for Computing Machinery at UT Austin (ACM)

MEMBER

Austin, TX

Aug. 2018 - PRESENT

- Focused on the advancement of computer science studies and research through events that serve its members and the community

Information & Systems Security Society (ISSS)

MEMBER

Austin, TX

Aug. 2018 - PRESENT

- Gained experience in cybersecurity through competing in CTFs every other Friday in addition to lectures and workshops