caderoyal@gmail.com

www.caderoyal.com

www.github.com/caderoyal   (737)-210-0609

Cade Royal

Education

College Station, TX   **Texas A&M University**   **August 2021- May 2025**
- **Major:** Computer Science GPA: 3.91 (in-major GPA: 4.0)
- **Programming Coursework:** Data Structures and Algorithms, Discrete Structures in Computing, Computer Organization, Programming Languages, Intro to Computer Systems, Intro to Software Engineering, etc.

Employment

Student Assistant   **Texas A&M University Department of Chemistry**   **August 2022- Current**
X-ray Diffraction Laboratory (https://xray.chem.tamu.edu/) and NMR Laboratory (https://nmr.chem.tamu.edu/)
- Designed and Built Oxygen Monitoring System using an arduino for Helium Recovery Facility
- Refilled Cryogens for both NMR and X-Ray Diffractions laboratories
- Responsible for general laboratory cleanliness in X-ray diffraction lab

Summer Manufacturing Assistant   **Reynolds and Reynolds**   **May 2023- August 2023**
Keytrak (https://www.reyrey.com/solutions/vehicle-management/keytrak-edge): Tracking car keys for dealerships
- Built servers for deployment in dealerships
- Learned about hardware and software functionality
- Enjoyed making the servers work as well as learning how they worked

Software Projects

Personal Website: www.caderoyal.com (*for additional information*)

Oxygen Monitoring System
- Built to monitor Oxygen levels in Helium Recovery Facility in order to detect potential Helium leaks
- Used an Arduino and oxygen sensor to set off lights and buzzers in cases of light and extreme conditions
- Utilized: C++, Git, etc.

Attendance Application
- Developed application to keep track of fictitious "attendance logs" for Programming Languages Course (CSCE 314)
- Given input file of raw data, established objects and data structures to store said data
- Utilized: JavaFX, Java, fxml files, etc.

Tic-Tac-Toe Game
- Deployed on my personal website
- Developed using HTML and CSS with game logic determined in javascript
- Utilized: HTML/CSS, Git, Javascript, etc.

Skills

Software: C++, Python, Unix, Java, Excel, HTML/CSS, Git, JavaFX, C, Javascript