

# Jason Hirsch

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C++ • Python • JavaScript • Java • C • HTML • CSS

## EDUCATION

### TEXAS A&M UNIVERSITY

#### COMPUTER SCIENCE MAJOR

Will Graduate May 2024 | College Station, TX

GPA: Freshman so N/A

Relevant Courses: Data Structures and Algorithms, Linear Algebra, Discrete Math

### TEXAS ACADEMY OF MATH AND SCIENCE (HIGH SCHOOL)

#### COMPUTER SCIENCE TRACK

Graduated May 2020 | Denton, TX

GPA: 3.96 / 4.0

Relevant Courses: Computer Science I, Computer Science II, Computing Foundations I

## PROJECTS

### TETRIS AND TETRIS AI | JAVASCRIPT August 2020

- Utilized the depth-first search algorithm to find the best possible moves for the AI
- Decreased execution time of the AI by over 600% by implementing a hash set to prevent executing duplicate operations

### DLL INJECTOR | C++ December 2019

- Studied how a DLL (dynamic-link library) is loaded within an application in order to program a DLL injector
- Designed and implemented a graphical user interface using the Qt framework

## EXPERIENCE

### CONNECTED AUTONOMOUS VEHICLES LAB | UNDERGRADUATE RESEARCHER

Jan 2019 – May 2020 | Denton, TX

- Accelerated the throughput for MQTT by 0.85 Mbps and Wget by 0.9 Mbps by implementing the use of an Edge Node
- Co-authored a paper presenting the team's research which has been featured by [AutonomouStuff](#) and [HotEdge](#)

## SKILLS

### TECHNICAL SKILLS

**Proficient:** C++

**Experienced:** Python • JavaScript • Java • C

**Familiar:** HTML • CSS

Data Structures • Algorithms • Git • GitHub • Visual Studio • Windows 10 • Qt • Microsoft Word • Microsoft Excel

### SOFT SKILLS

Leadership • Public Speaking • Problem Solving • Teamwork • Attention to detail • Creativity

## AWARDS

- 2020 First Year Participant in the [HowdyHack Hackathon](#)
- 2020 Selected as a Brockman Scholar for a competitive scholarship awarded to only 50 out of hundreds of applicants
- 2018 Achieved a Perfect ACT Score
- 2018 Qualified for the UIL Calculator State Competition
- 2017 Placed 4th in Computer Science at the UIL District Championship

## VOLUNTEERING

### INTELICHOICE MATH TUTOR | TUTOR

September 2018 – May 2020 | Denton, TX

- Tutored underprivileged children in math at the local library with the [Intellichoice](#) organization

### ELM FORK EDUCATION CENTER LEADER | GROUP LEADER

March 2019 – May 2020 | Denton, TX

- Lead students during their field trips to learn about environmental science

