

# ALI JAVED

400 Southwest Pkwy APT 232  
College Station, TX 77840

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## EDUCATION

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**Texas A&M University**, College Station, TX

Dec. 2021

- B.S. in Computer Science

GPR: 3.03

**Denison High School**, Denison, TX

- Class Rank: 6/335

## TECHNICAL EXPERIENCE

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**HACK Computer Platform**

Sep. 2019 – Dec. 2019

- Implemented 16-bit HACK Computer using hardware simulator and HDL
- Programmed three-component architecture including ROM, CPU, and RAM
- Wrote assembler capable of converting HACK instructions to machine code

**AutoDrive Challenge**

Aug. 2018 – Dec. 2018

- Developed and demonstrated a fully autonomous Chevy Bolt
- Competed in national competition hosted by SAE International and General Motors
- Worked on thermal management and LiDAR team
- Familiar with LiDAR sensors, machine learning, and artificial neural networks

**Water Rocket Project**

Mar. 2018 – Apr. 2018

- Designed, built, and demonstrated a water rocket with a 150 m apogee
- Programmed a mathematical flight model using Excel-based VBA
- Aided teammates in drafting propulsion design
- Documented progress and wrote a formal report at completion

**Technical Skills**

- C++
- Java
- MATLAB
- HDL
- Excel-based VBA
- Scheme (Lisp)

**Object-Oriented Programming**

- ADT implementation
- Hash tables
- Sorting algorithms
- Graphs/shortest path algorithm
- GUI Design

## EXTRACURRICULAR

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**Chi Psi Beta Fraternity Inc. (MGC)**

Jan. 2019 – present

*Philanthropy Chair & Historian (Aug. 2019 – present)*

- Organize philanthropy events such as bone marrow drive and mental health awareness
- Volunteer for service events such as Adopt-a-Street, food drives, and Big Event
- Network with alumni in industry and maintain relations

**Institute of the Development and Education of Asian-American Leaders (IDEAAL)**

Aug. 2017 – Jan. 2019

*Historian (Aug. 2018 – Jan. 2019)*

- Organized social and service events alongside leadership team
- Facilitated leadership and cultural awareness workshops
- Documented and photographed events for the organization

## LEADERSHIP EXPERIENCE

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**Workshops**

- DMS Student Leader Training
- Leadership Education for APIDA Development (LEAD)
- MSC WAVES
- Freshmen Leadership Development Retreat (FLDR)