

## Education

- **The University of Texas at Austin** 2018 - 2021  
*Pursuing B.S. in Computer Science* **GPA: 4.0**
  - Member of the **Turing Scholars** honors program
  - Recipient of the 2018 Corbyn Salisbury Endowed Scholarship
  - Coursework: Architecture, Data Structures, Competitive Programming, Probability, and Discrete Math
- **The University of North Texas (TAMS)** 2016 - 2018  
*Graduated with Gold Cord and Honors diploma* **GPA: 4.0**
  - Coursework: Systems Programming, Linear Algebra, Differential Equations I, II, and Complex Variables

## Skills

- Languages:
  - Proficient in Java, JavaScript, C
  - Familiar with bash, Python, C++, PHP, SQL
- Frameworks: Express.js, Meteor.js, React.js, React Native, React 360 (formerly React VR), Qt

## Projects

- **Carma** 01/2019 - 02/2019  
*Hands-free car-to-car communication* **React Native**
  - Used the **SmartCar** API to track vehicle locations and characteristics, allowing drivers to dictate messages to specific nearby vehicles through **Google Cloud** Text-to-Speech and Speech-to-Text APIs
- **TetrisBrain** 09/2018 - 10/2018  
*Tetris Implementation and AI* **Java**
  - Used a genetic algorithm to generate a greedy AI to play Tetris with the goal of long term survival
  - Able to clear hundreds of thousands of lines in one game
- **Forward Tutoring** 07/2017 - 07/2018  
*Online live tutoring platform* **JavaScript**
  - Built from scratch a new online tutoring platform using **Meteor** and **React**, leading to a **140% increase** in user registrations
  - Coordinated the automated selection and scheduling of volunteer tutors, allowing a **50% increase** in tutoring availability and a **290% increase** in tutor engagement

## Experience

- **Physics Department, Southern Methodist University** 06/2017 - 08/2018  
*Student Intern*
  - Performed physics research with Dr. Jingbo Ye over novel methods of measuring dielectric properties
  - Enhanced a 3D robotic arm by producing counterweights for height retention and created an intuitive front-end user interface using **Java Swing** for smooth operation
  - Co-created a **Electron/WebGL** program used to visualize CMOS sensor data to detect particles

## Extracurricular Activities

- **UT Information and Systems Security Society** 12/2018 - present  
*Engineering Officer*
  - Created Capture-the-Flag challenges for biweekly competitions
  - Prepared talks over security techniques and best practices