

# Timothy (Tikki) Cui

ttcui@vt.edu • (319) 471-5531  
2022 BethPage Ct. Charlottesville, VA 22901  
[www.linkedin.com/in/timothycui](http://www.linkedin.com/in/timothycui)

## Education

### **Virginia Tech | 2021 - 2024 (anticipated)**

- Pursuing a Bachelor's Degree in Computer Science
- GPA: 3.89 (cumulative), 3.94 (in-major)
- Relevant Coursework: *Software Design & Data Structures, Data Structures & Algorithms, Intro to Computer Organization I & II, Intro to Problem Solving in CS, Discrete Mathematics, Applied Combinatorics, Self Study in a Programming System (SQL)*

### **University of Iowa | 2019 - 2021**

- Took a few courses through the Postsecondary Enrollment Options program (PSEO) -- a program that allows high school students to dual enroll in university-level courses
- Relevant Coursework: *Programming Languages and Tools (C++)*

### **Iowa City West High School | 2017 - 2021**

- Graduated with honors and 3.97 GPA (unweighted)
- Relevant Coursework: *AP Computer Science A, Principles of Engineering*
- Relevant Activities: FTC Robotics Club, FRC Robotics Club, Math Club, STEM Club

## Work Experience

### **Summer Intern • Exelara Software Center | May - Aug 2023**

### **PLAYologist • Iowa Children's Museum | June - July 2022**

- Interacted with kids and their guardians to enhance their learning experience
- Sanitized public areas to maintain a safe and clean environment
- Communicated with other PLAYologists to ensure all tasks are completed smoothly

### **Math Tutor • Iowa City Mathnasium | May - Aug 2021**

- Guided students from first grade to high school with their math homework
- Improved students' math skills through targeted practice questions

### **Summer Intern • National Advanced Driving Simulator | July 2019**

- Manipulated raw data from driving simulator experiments with MATLAB
- Reviewed study documentation to identify driving event specific information to specialize data reduction code
- Completed data reduction for one study after assisting with several additional studies to learn process

## Projects/Activities

### **RoboMaster Robotics | Sept 2022 - Present**

- Learning how to use Kalman filter, SLAM, LiDAR, and OpenCV for auto aiming

### **Discord Bot | Dec 2020 - Present | <https://top.gg/bot/785286985023356959>**

- Built the bot with self-taught JavaScript and a MongoDB database, hosted on a Linux server
- Enhanced service by releasing regular updates based on user feedback and platform changes
- Currently servicing 2,500+ users

### **FTC Robotics Mentor | May 2021 - May 2022**

- Mentored the programming team of my former high school robotics club, offering suggestions on how to improve their code
- Collaborated with the head coaches to organize team meetings and figure out logistics

## Skills

- Languages: Java, JavaScript, C, C++, Python, MATLAB, SQL, R
- Tools: Git, GitHub, Linux, Node.js, MongoDB, Visual Studio Code