

# DHRUV AGARWAL

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## EDUCATION

### **University of Missouri, Columbia – Honors College**

Anticipated Graduation: May 2024

- B.S. in Computer Science, Minor in Mathematics | **GPA: 4.0**

### **Parkway West High School**

Graduation: May 2021

- GPA: 4.254
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## TECHNICAL EXPERIENCE

### **Discovery Fellow Researcher, Mizzou Honors College - Columbia, Missouri (August 2021 - Present)**

- Working under the mentorship of Dr. Derek T. Anderson to work on real-time AI/ML for vision guided autonomy for UAVs, in the context of augmented reality.

### **MU Robotics, OpenLab - Columbia, Missouri (August 2021 – Present)**

- Working on a project which combines motion sensing and physics to autonomously hit back an air hockey puck to a player using an engineered robotic arm.

### **Software Engineer/Executive Board, SpeechKing - St. Louis, Missouri (March 2020 - May 2021)**

- SpeechKing is a non-profit organization that helps teach English to impoverished kids in China and India. Created the first fully functional website for SpeechKing in JavaScript: <https://speechking.org/>

### **Varsity Captain, Cyber-Security Club – St. Louis, Missouri (August 2020 – May 2021)**

- Managed my varsity team; organized cyber security awareness workshops to help the community; participated and led my team in CyberPatriot competition. One of 12 teams out of over 3000 total teams to qualify for nationals.

### **Summer Intern/Software Developer, MoonRock Tech - St. Louis, Missouri (June 2019 - August 2019)**

- Programmed test cases and wrote automated testing programs to check whether various websites are functioning correctly using CSS and Node JS.
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## LEADERSHIP EXPERIENCE

### **Teacher & Staff, Bal Vihar of St. Louis, Indian Cultural and Heritage School (August 2017 - May 2021)**

- Responsible for creating lesson plans, teaching cultural and religious material, and planning diversity events to over 30 students in each class.

### **Youth Leader, Academy of Science, Teen Science Café - St. Louis, Missouri (January 2016 - May 2021)**

- Planned bi-monthly STEM cafes where teenagers around St. Louis could listen to professional speakers and participate in science activities.

### **Robotics Camp Teaching Assistant, Maryville University - St. Louis, Missouri (July 2018 - August 2018)**

- Taught advanced programming courses with EV3 & NXT robotics to 8–12-year age group kids.
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## SKILLS

### **Activities:**

- Mizzou Computing Association
  - Created a “Space Exploration” game in TigerHacks 2021 (3-day long hackathon)
- Ping Pong Club, Speech & Debate, JV Tennis

### **Computer programming knowledge:**

- Python, C, Java, HTML5, CSS/Bootstrap, Javascript; Unreal Engine
- Arduino circuitry and language, Raspberry Pi, EV3 and NXT robotics

### **Interests:**

- Magic, investing, table tennis, astronomy