

DHRUV AGARWAL

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EDUCATION

University of Missouri, Columbia – Honors College

Anticipated Graduation: May 2024

- B.S. Computer Science | **GPA: 4.0**

Parkway West High School

Graduation: May 2021

- GPA: 4.254

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.

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.

SKILLS

Activities:

- Mizzou Computing Association
 - Created a “Space Exploration” game in TigerHacks 2021 (3-day long hackathon)
- Ping Pong Club (Secretary)

Computer programming knowledge:

- Python, C, Java, HTML5, CSS, JavaScript (intermediate); Unreal Engine
- Arduino circuitry and language, Raspberry Pi, EV3 and NXT Mindstorms robotics

Languages known:

- English (native), Hindi (fluent), and Spanish (intermediate)

Interests:

- Magic tricks, investing, table tennis, astronomy