

# Harsha Kalivarapu

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## EDUCATION

### The Ohio State University

GPA: 3.95/4.00

*B.S. in Computer Science and Engineering with Honors, Minors in Business and Math, Dean's List*

May 2027

- **Relevant Coursework:** Software Development and Design, Discrete Structures, Data Structures Using Java, Object-Oriented Programming, Linear Algebra, Statistics for Engineers, Multivariable Calculus
- **Integrated Business and Engineering Program:** Selected as 1 of 18 engineering students for 4-year honors program that emphasizes software development and innovation, entrepreneurship, and multidisciplinary teamwork
- **Maximus Scholarship Recipient:** Academic scholarship given to top 3% of incoming students

### Dublin Coffman High School

SAT: 1540, GPA: 4.43/4.00

*STEM Diploma with Honors, Early Graduate, Summa Cum Laude Distinction*

May 2024

- **Awards:** Valedictorian, National Merit Scholarship Finalist, 2x AP Scholar with Distinction, Honor Roll (All Sems)

## EXPERIENCE

### The Ohio State University Wexner Medical Center

Columbus, OH

*Undergraduate Research Assistant*

Dec. 2024 – Present

- Collaborating with Dr. Pietro Mazzoni to investigate freezing of gait in Parkinson's Disease patients
- Developing sensor technology and analysis techniques in Python and Igor to analyze various signals
- Interpreting data from clinical trials to identify patterns and extract meaningful insights

### The Ohio State University (College of Engineering)

Columbus, OH

*Undergraduate Teaching Assistant*

Jan. 2025 – Present

- Guiding 40+ students in mastering fundamentals of programming in Java. Facilitate learning through labs and one-on-one office hours
- Assessing and providing constructive feedback on assignments, projects, and exams to foster academic growth

### Daniel Wright Elementary School

Dublin, OH

*Computer Science Mentor*

Feb. 2024 – May 2024

- Mentored five 5th-grade students in core programming concepts, including basic Java, HTML, web development, object-oriented principles, basic operating systems, etc.
- Guided students through small-scale coding projects, helping them strengthen their programming skills

### KK Software Associates

Dublin, OH

*Management Intern*

Jun. 2023 – Aug. 2023

- Managed workload distribution and streamlined progress reporting to optimize team efficiency
- Coordinated with sourcing and billing managers to facilitate team meetings and validate timesheets

### Science Olympiad

Dublin, OH

*President (1 yr), Member (2 yr)*

Aug. 2021 – May. 2024

- Led 50+ members through Invitationals, Regionals, and States competitions. Organized school's first-ever Invitationals competition
- Secured over \$700 in sponsorship for club advancement. Actively promoted club at annual club fairs and coordinated fundraisers with organizations and restaurants
- Competed in 3-5 out of 23 events each year, including Robot Tour (designed and programmed a robotic vehicle); earned 4 medals at Regionals and placed top 10 at States

## PROJECTS

### TruthTrakker (1st Place at High School I/O (200+ participants))

Nov. 2023

- Led team of 4 to create a Python-based article analysis tool using machine learning to determine validity, sentiment, and authorship (human or bot) at 90% accuracy

### Super Store Sales

Apr. 2024

- Interactive sales analytics dashboard built with Python featuring dynamic filtering, engaging visualizations, and tools for pivot tables and dataset downloads.

### Tug-o'-Trivia (2nd Place out of 25+ teams)

Dec. 2024

- Multiplayer trivia game built with C/C++, featuring a tug-of-war mechanic, customizable themes, unique player icons, and interactive gameplay. Designed using the Proteus Simulator

## SKILLS & INTERESTS

**Languages:** Java, Python, C/C++, JavaScript, HTML, CSS, MatLab, LaTeX, Igor

**Tools:** Git, GitHub, Visual Studio Code, Eclipse, MS Office 365, SolidWorks (CAD)

**Interests:** Script Writing, Volunteering, Hackathons, Hiking, Culinary Exploration, Reading, Traveling