

Harsha Kalivarapu

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EXPERIENCE

OHIO STATE UNIVERSITY | RESEARCH ASSISTANT

Dec 2024 – Present | Columbus, OH

- Working with Dr. Pietro Mazzoni to investigate freezing of gait in Parkinson's Disease patients
- Developing sensor technology and analysis techniques in Python to analyze various signals

OHIO STATE UNIVERSITY | TEACHING ASSISTANT

Jan 2025 – Present | Columbus, OH

- Will guide 40+ students in mastering fundamentals of programming in Java. Facilitate learning through labs and one-on-one office hours
- Will assess and provide constructive feedback on assignments, projects, and exams to ensure students' academic growth

SCIENCE OLYMPIAD | PRESIDENT (1 YEAR), MEMBER (2 YEARS)

Aug 2021 – May 2024 | Dublin, OH

- Led 50+ members through Invitationals, Regionals, and States competitions. Hosted school's first-ever Invitationals competition
- Raised \$300+ from sponsors towards club advancement. Promoted club at annual club fairs and arranged fundraisers with organizations and restaurants
- Competed in 3-5 out of 23 events (per year), including Robot Tour (engineered and programmed a robotic vehicle). Won several medals at Regionals, placed top 10 at States

KK SOFTWARE ASSOCIATES | MANAGEMENT INTERN

Jun 2023 – Aug 2023 | Dublin, OH

- Assisted managers in various duties, including workload distribution and progress report reconciliation
- Collaborated with employees and leaders to coordinate team meetings and validate timesheets

DANIEL WRIGHT ELEMENTARY | COMPUTER SCIENCE MENTOR

Feb 2024 – May 2024 | Columbus, OH

- Mentored 5th-grade students with various programming skills, including Java and HTML, web development, understanding basic operating systems, etc.
- Helped interested students with coding small-scale projects and getting an overall better understanding of programming

PROJECTS

HIGH SCHOOL I/O HACKATHON TEAM | TEAM LEAD

November 2023 | Hilliard, OH

- Created **TruthTrakkr**, a program implemented in Python that uses machine learning to analyze a given article and determine its validity, sentiment, and if it was written by a human or bot
- Presented application through engaging video and a website. Won 1st place out of 40+ teams

MY HOMEPAGE

Sep 2024 | Dublin, OH

- Created a personal homepage implemented in HTML, CSS, and JavaScript. Includes background and other personal projects

EDUCATION

THE OHIO STATE UNIVERSITY

B.S. IN COMPUTER SCIENCE AND ENGINEERING, MINORS IN BUSINESS AND MATHEMATICS

August 2024 - May 2028 | Columbus, OH
IBE Honors Program (1 out of 36 students)
Cum. GPA: 4.0 / 4.0

DUBLIN COFFMAN HIGH SCHOOL

ACADEMIC DIPLOMA WITH HONORS
EARLY GRADUATE

August 2021 - May 2024 | Dublin, OH
Valedictorian • National Merit Scholarship Finalist • AP Scholar with Distinction • Honor Roll (All Semesters)

W.GPA: 4.43 / 4.00

SAT: 1540

SKILLS

PROGRAMMING / TECHNICAL

Languages:

Java • Python • C/C++ • HTML • CSS • JavaScript • MATLAB • LaTeX •

Tools:

Git • GitHub • Eclipse • Visual Studio Code • MS Office 365

COURSEWORK

UNDERGRADUATE

Software I-II

Honors Fundamentals of Engineering

Discrete Structures

Data Structures Using Java

Introduction to Java

Linear Algebra

Calculus I-III

Statistics and Probability For Engineers

Mechanics, Work and Energy, Thermal Physics

SOCIETIES

Integrated Business and Engineering (IBE) Honors Program

University Honors College

Science Olympiad

OHI/O

LINKS

GitHub:// [HarshaKalivarapu](#)

LinkedIn:// [harshakalivarapu](#)

Personal Website:// [HarshaKalivarapu](#)