

# ABHAY SINGH THAKUR



## EDUCATION

**Purdue University**, West Lafayette, IN May 2023  
Bachelor of Science in Computer Science and Data Science  
Concentration: Software Engineering & Machine Intelligence  
CGPA: 3.34  
Dean's List and Semester Honors (Fall 2019, Spring 2020, Fall 2020)  
**Emirates Future International Academy**, Abu Dhabi, UAE April 2019

## WORK EXPERIENCE

**Undergraduate Teaching Assistant** *Purdue University, West Lafayette, IN* August 2021 – Present  
Grading student assignments, holding office hours, and helping develop course curriculum for the Freshman Tools course, CS193

## PROJECTS

**Movie Magpie** July 2021  
Built a basic React app to give movie recommendations based on user-defined parameters  
Packages used: Material UI, Formik | *Link: <https://thakur22429s.github.io/magpie/>*  
**BoilerMake VIII** *Purdue University, West Lafayette, IN* January 2021  
Created a web-app to track users' water usage and generate a comparative report using Django and JS/CSS/HTML | Frameworks used: Dug, Sass and Bootstrap | *Link: <https://waterudoing.tech/>*  
**NASA Space Apps Challenge 2020 Participant** *Universal Event* October 2020  
Developed a solution for the "Spot That Fire V3.0 Challenge" with a group  
**Hello World Hackathon** *Purdue University, West Lafayette, IN* September 2019  
with a team to develop an app to help locate lost bikes on college campuses using location indexing  
**C++ Project** *Abu Dhabi, UAE* Fall 2018  
Designed a rudimentary Student Portal with an integrated minigame (Snake) using C++

## ACTIVITIES AND ORGANIZATIONS

**Operations Head** *Cricket and Social Outreach (CASO) at Purdue University* April 2021 – Present  
Collaborating with other board members to plan and organize weekly events and cricket games  
**Boiler Gold Rush Team Leader (Student Orientation 2020)** April 2020 – August 2020  
Had an opportunity to lead incoming freshmen through Purdue University's student orientation  
**Member, b01lers (Purdue Capture the Flag)** *West Lafayette, IN* January 2021 – Present  
Applying practical skills in web security, system security, reverse engineering, cryptography, and forensics to compete against other schools and teams in Capture-the-Flag competitions  
**Member, Purdue Hackers** *West Lafayette, IN* September 2019 – Present  
**Member, Association of Multicultural Computer Scientists** *West Lafayette, IN* August 2021 – Present

## SKILLS AND COURSEWORK

**Programming Languages:** C, C++, Java, Python, HTML, CSS, JavaScript, R, SQL, Shell Scripting (Bash)  
**Tools and Frameworks:** Agile Development, Git, MongoDB, AWS, Bootstrap, Node.js, Django, React  
**Courses Completed:** Systems Programming, Data Structures and Algorithms, Multivariate Calculus