

# Yash Sharma

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## Education

### Michigan State University, East Lansing, M.I.

Bachelor of Science, Computer Engineering - Honors College  
Dean's Honor List - Fall 2016, Spring 2017, Fall 2017  
Minor: Cognitive Science

May 2020 (Expected)

GPA – 3.35/4.0

## Experience

### Teaching Assistant

August 2017 – Present

Dept. of Computer Science and Engineering, Michigan State University

- Took leadership for a section of 22 students in a weekly laboratory focusing on an individual OOP concept in Python for Intro to Python class at Michigan State University
- Created 4 weekly projects that test and expand student's ability to design and implement algorithms and OOP concepts in Python
- Held consulting & office hours weekly, assisting students with specific difficulties in class and projects

### Student Information Technician Assistant I

October 2016 – August 2017

Infrastructure Planning and Facilities, Michigan State University

- Led the testing for the Windows 10 upgrade project for the entire department
- Assisted upgrading the systems inventory by researching and testing new front-ends for the SQL back-end
- Developed Python scripts to fetch employee details of over 500 employees to update the systems inventory

## Projects

### SpartaHack API: [https://github.com/SpartaHack/SpartaHack\\_API\\_2019](https://github.com/SpartaHack/SpartaHack_API_2019)

June 2018 - Present

Content Management Endpoint

- Designed as a solution to yearly team turnover and changing developer tool stacks
- Leading a team of 3 web developers to port the existing SpartaHack API from Ruby on Rails to Python
- The API serves as an endpoint for user registration, authentication, and application processing as well as managing content for mobile applications and website regardless of their tool stack.
- The API uses Flask to handle routing and Postgress as a database to store user data. SQLAlchemy used as an ORM to interact with the database

### Door's Open!: <https://devpost.com/software/door-s-open>

September 2017

MHacks X

- A webapp to help schedule students and professor with the open-door office hours
- App handles multiple professors and multiple classes for each professor. Usability is designed for minimal effort on both professors and students
- Backend written in Python using Flask framework. Hosted on Google App Engine. Google Cloud Datastore used for the database

## Leadership

### SpartaHack 2018, 2019: <https://spartahack.com>

August 2017 - Present

Director of Technology, WebMaster

- Performed devops and sysadmin jobs to facilitate deployment of SpartaHack API and website
- Implemented Gavel, HackMIT's project expo judging system, to facilitate judging for the hackathon projects
- Leading a team of 4 developers and designers to port the existing native apps to the mobile apps in React-Native for cross platform release

### SpartanHackers: <https://spartanhackers.com>

February 2018 - Present

Co-Director of Education and Software

- Helped collaborate special help room for students enrolled in CSE 231 with the course instructor
- Working with a team of 4 developers and designers to design and develop the club website and app
- Facilitated workshops on Intro to Docker and Intro to Amazon Alexa