Shaurya **Sinha**

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Education

Purdue University

West Lafayette, Indiana

B.S. in Computer Engineering

Aug. 2016 - Exp. May 2020

- GPA: 3.74
- Charles W. Brown ECE Scholarship
- Honors College

Work Experience

Ministry of External Affairs

New Delhi, India

Software Development Intern

May 2017 - Jun. 2017

- Developed a desktop application in Java that checks the names of visa applicants against a list of known/potential criminals and terrorists using fuzzy string matching and a custom Soundex algorithm.
- Prototyped the system to be used at visa offices and embassies in neighboring countries as one in a series of security checks.
- The system is able to detect changes in spelling or pronunciation and still raise flags, in case a criminal changes their name to enter the country.

IEEE Computer Society

West Lafayette, Indiana

Sponsorship Delegate

Jan. 2017 - Present

- Responsible for securing funds and sponsorship for the activities and events of the Computer Society.
- Applied for monetary awards and reached out to representatives from industry as well as within Purdue University to inquire about sponsorship opportunities.
- Raised $500 in my first semester as sponsorship delegate.

Projects

Purdue Pancakes

Jun. 2017 - Aug. 2017

- iOS app made using the Purdue Dining Courts API.
- Allows users to choose favorite foods from the upcoming menu and sends a notification containing serving time and location three hours before the food is to be served.

Autonomous Lunar Vehicle

Course project sponsored by Harris Corp.

Feb. 2017 - May. 2017

- Designed the prototype of an autonomous vehicle that uses GPS to traverse the lunar surface to drop antennae at specific points in order to facilitate future space research, as specified by Harris Corp.
- Wrote the shortest path-finding algorithm and the system to interpret GPS messages using RobotC.
- Vehicle was able to achieve 12/17 points in the final project demonstration to a representative from Harris.

Thermal Depolymerization Robot

Course project sponsored by Harris Corp.

Sep. 2016 - Dec. 2016

- Designed the prototype of a robot that classifies bins containing different kinds of debris produced in natural disasters and transports them to a Thermal Depolymerization Plant, as specified by Harris Corp.
- Wrote the line-following and bin-lifting algorithms for the robot using a Python-to-NXT library.
- Robot was able to achieve 21/29 points in the final project demonstration to a representative from Harris.

Skills

- Languages: C, Java, Python, Swift, HTML, CSS, MATLAB
- Tools/Misc.: Git, Linux, Bash, Xcode, IntelliJ IDEA, Bootstrap