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 — *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.
- 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.

Thermal Depolymerization Robot — *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.
- 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.

Skills

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