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

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 database of known/potential criminals and terrorists using Levenshtein distance and a custom Soundex algorithm.
- Implemented changes to existing code; reduced sorting time from $O(n^2)$ to O(n log n) and decreased application response time by 65%.
- Application classified 88% of 1500 test cases correctly.

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.

Projects

Photo Calorie Counter

github.com/Ayruahs/PhotoCalorieCounter *Jul. 2017 - Aug. 2017*

- iOS app made using IBM Watson's Visual Recognition service on the Bluemix platform.
- Users take a picture of their meal and the app displays its calorific value.

Purdue Pancakes

github.com/Ayruahs/Pancakes *Jun. 2017 - Jul. 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.

Skills

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