

Shaurya Sinha

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Education

Purdue University

B.S. IN COMPUTER SCIENCE WITH A MINOR IN MATHEMATICS

- GPA: 3.74/4.0
- Charles W. Brown ECE Scholarship
- Honors College

West Lafayette, Indiana

Aug 2016 - Dec 2019

Experience

Ministry of External Affairs

SOFTWARE DEVELOPMENT INTERN

- Developed a desktop application in Java that checks the names of visa applicants against a database of known and potential criminals and terrorists using Levenshtein distance and a custom Soundex algorithm.
- Decreased application response time by 65% by reducing sorting time from $O(n^2)$ to $O(n \log n)$ and implemented changes to existing code.
- Achieved high accuracy as evidenced by the application classifying 88% of 1500 test cases correctly.

New Delhi, India

May 2017 - Jun 2017

IEEE Computer Society

SPONSORSHIP DELEGATE

- Secured 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.

West Lafayette, Indiana

Jan 2017 - Oct 2017

Projects

Photo Calorie Counter

📄 GITHUB.COM/AYRUAHs/PHOTOCALORIECOUNTER

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

Aug 2017

Purdue Pancakes

📄 GITHUB.COM/AYRUAHs/PANCAKES

- 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 an hour before the food is to be served.

Jun 2017 - Jul 2017

Autonomous Lunar Vehicle

COURSE PROJECT SPONSORED BY HARRIS CORP.

- 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.
- Implemented the wavefront algorithm to find the shortest path 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.

Feb 2017 - May 2017

Skills

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