Shaurya **Sinha**

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Education

Purdue University *West Lafayette, Indiana*
B.S. in Computer Science with a Minor in Mathematics *Aug 2016 - May 2020*

- GPA: 3.76/4.0
- Charles W. Brown ECE Scholarship

Experience

Fulcrum GT *Chicago, IL*
Software Engineering Intern *May 2018 - Aug 2018*

- Developed a patent pending web application using React that reduces the time taken to conduct trademark research for logos and wordmarks by IP attorneys and graphic designers using Content-based image retrieval (CBIR).
- Designed, secured, and tested the API for CBIR and user authentication in Python.
- Reduced time of determining whether a logo is trademarkable from a few hours or days to a few minutes as tested by in-house attorneys.

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 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 implementing changes to existing code.
- Achieved high accuracy as evidenced by the application classifying 88% of 1500 test cases correctly.

Projects

Celebrity Recognition
GITHUB.COM/CS490iOS/Celebrity-Recognizer

- Developed an iOS application that uses AWS Rekognition to recognize celebrities from pictures taken by the user and displays that celebrity's popular movies.
- Used Firebase as backend for tracking details of all searched celebrities and handling user login.

Photo Calorie Counter
GITHUB.COM/Ayruahs/PhotoCalorieCounter

- Developed an iOS application 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.

Purdue Pancakes
GITHUB.COM/Ayruahs/Pancakes

- Developed an iOS application that uses the Purdue Dining Courts API.
- Users can choose favorite foods from the upcoming menu and are sent a notification containing serving time and location an hour before the food is to be served.

Skills

- Languages: Java, Swift, Python, C, C++, JavaScript, MATLAB
- Tools/Technologies: Git, AWS, Unix/Linux, Flask, React, Firebase, HTML/CSS