Shaurya **Sinha**

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Education

Purdue University *West Lafayette, IN*

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*

- Collaborated with a team of 6 to develop a patent pending web application that reduces the time taken to conduct trademark research by IP attorneys and graphic designers using Content-based image retrieval (CBIR).
- Reduced time of determining whether a wordmark or logo is trademarkable from a few hours or days to a few minutes as tested by in-house attorneys and designers.
- Designed, secured, and tested the API for CBIR and user authentication in Python.
- Implemented part of the frontend to UI/UX designer's specifications using React.js.
- Deployed the backend to a Kubernetes cluster after packaging it into a Docker image.

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

- Collaborated with a team of 3 to develop an iOS application that uses Amazon Web Services' (AWS) Rekognition API to recognize celebrities from pictures taken by the user and displays that celebrity's popular movies.
- Utilized 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 that allows users to obtain the caloric value of their meal by taking a picture.
- Utilized IBM Watson's Visual Recognition service on the IBM Cloud platform to recognize foods.

Purdue Pancakes

github.com/Ayruahs/Pancakes

- Developed an iOS application that reminds users when their favorite foods are being served in the dining courts.
- Utilized the Purdue Dining Courts API to allow users to select food items from the upcoming week's menu and send notifications containing serving time and location an hour before the food is to be served.

Skills

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