Shaurya **Sinha**

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Education

Purdue University *West Lafayette, IN*

B.S. in Computer Science with a Minor in Mathematics *Aug 2016 - December 2019*

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

Experience

Facebook *Menlo Park, CA*

Incoming Software Engineering Intern *May 2019 - Aug 2019*

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.

Skills

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