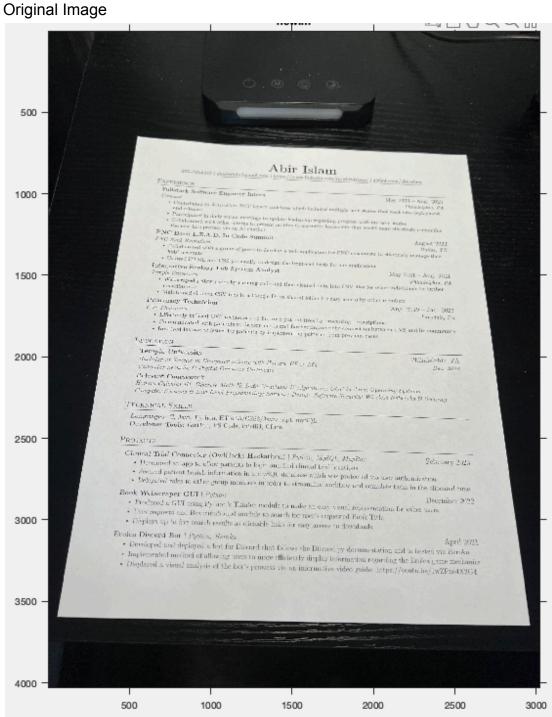
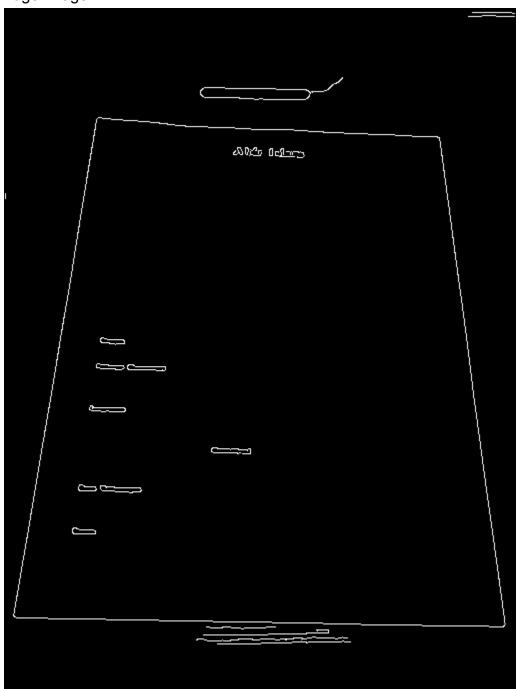
CS583 Project Report 10 December 2024 Abir Islam Seena Soroush

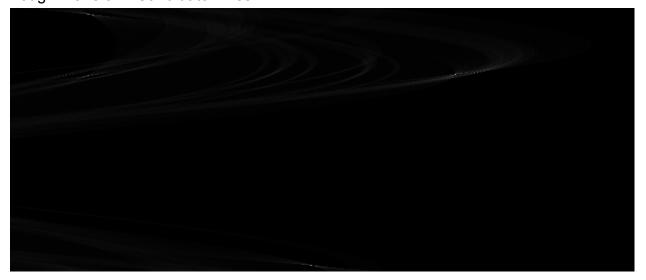
Part 1: Image Prep and Detection



Edge Image

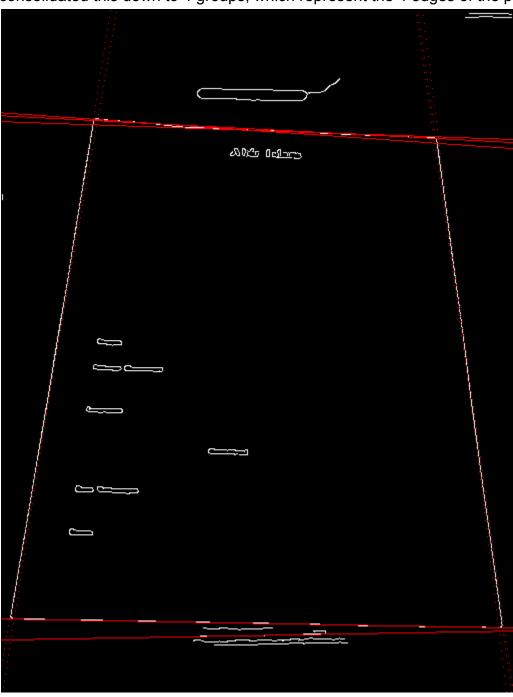


<u>Part 2: Hough Transform for Line Detection</u> Hough Transform Candidate Lines



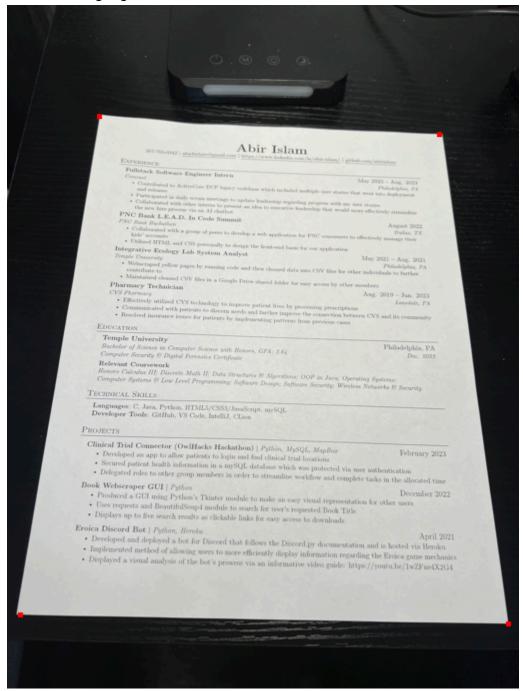
<u>Part 3: Relevant Line Identification</u> Superimposed lines on edge image

To select our potential lines, we first went through the accumulator matrix to grab the top 10 lines with the highest vote counts. We realized that it would grab multiple of the same lines, so we grouped lines that were together based on angle and distance. Then for each group, we only kept the line that had the highest vote to begin with. We then consolidated this down to 4 groups, which represent the 4 edges of the paper.



Part 4: Line Intersections

4 Corners Highlighted



Abir Islam

267-765-6542 | phytohinelymal com | https://www.finfedin.com/m/ship-islam/ | gitlash.com/shiralam

EXPERIENCE

Fullstack Software Engineer Intern

May 2021 - Aug. 2021

Common

Philadelphia, PA

- Contributed to ActiveCore DCP legacy codebase which included multiple user stories that went into deployment, stid releases
- Participated in duly sepain meetings to update leadership organizing progress with my way stories
- Collaborated with other interns to present an idea to executive leadership that would more effectively structules.
 the new hire process via an Al chatbot

PNC Bank L.E.A.D. In Code Summit

August 2003

Bullen, TX

PNC Bank Bucketton

- Collaborated with a group of poers to develop a web application for PNC concurrent to effectively manage their kiele accounts.
- Utilized HTML and CSS personally to design the frost-end basis for our application

Integrative Ecology Lab System Analyst

May 2021 - Aug. 2021

Philadelphia, PA

Temple University

- Webscraped yellow pages by running code and then cleaned data into CSV files for other individuals to further
- Maintained cleaned CSV files in a Google Drive shared folder for easy access by other mambers.

Pharmacy Technician

Aug. 2019 - Jun. 2023

Landele, PA

GVS Pharmany

- · Effectively utilized CVS technology to improve patient lives by processing prescriptions
- Communicated with patients to discern needs and faither improve the consection between CVS and its community
- Resolved insurance issues for patients by implementing patterns from previous cases

EDUCATION

Temple University

Philadelphia, PA

Dec. 2029

Bachelor of Science in Computer Science with Honors, GPA: 2.64 Computer Security & Digital Forensies Certificate

Relevant Coursework

Rosaro Colculus III; Discrete Math II; Data Structura & Algorithms; OOP in Java; Operating Systems; Computer Systems & Low Level Programming: Software Design; Software Security; Wireless Networks & Security

TECHNICAL SKILLS

Languages: C. Java, Python, WTML5/CSS3/JavaScript, mySQL

Developer Tools: GitHub, VS Code, IntelliJ, CLion

PROJECTS

Clinical Trial Connector (OwlHacks Hackathon) | Python, MySQL, MapBox

February 2023

- · Developed as app to allow patients to login and find clinical trial locations
- · Secured patient health information in a mySQL database which was protected via user authentication
- Delegated roles to other group members in order to streamline workflow and complete tasks in the allocated time

Book Webseraper GUI | Python

December 2022

- · Produced a GUI using Python's Tkinter module to make an easy visual representation for other users
- · Uses requests and BeautifulSoup4 module to search for user's requested Book Title
- Displays up to five search results as clickable links for easy access to downloads

Ereica Discord Bot | Python, Heroku

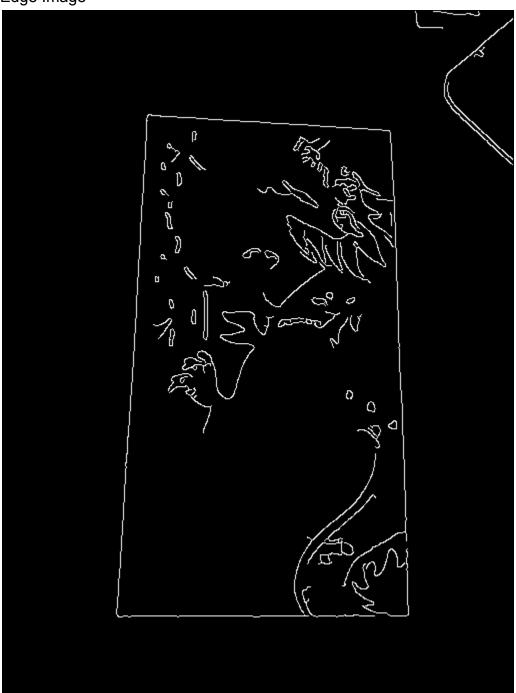
April 2021

- · Developed and deployed a bot for Discord that follows the Discord py documentation and is hosted via flerokn.
- · Implemented method of allowing users to more efficiently display information regarding the Ecoica game mechanics
- Displayed a visual analysis of the bot's prowess via an informative video guide: https://youtu.be/lwZFne4X2G4

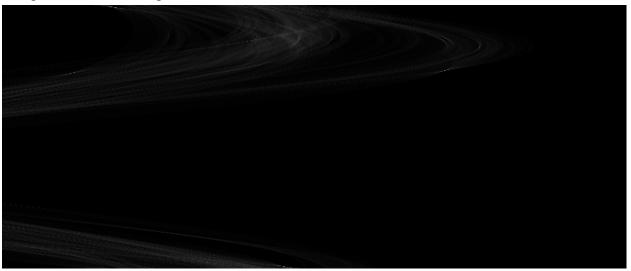
Part 6: Another Image! Original Image



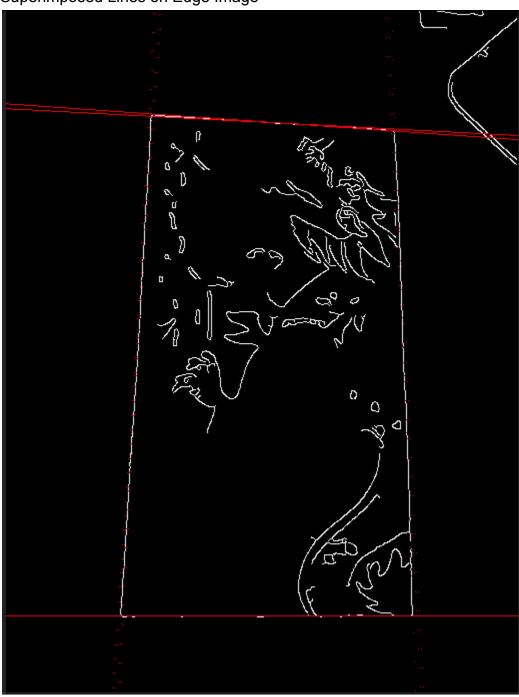
Edge Image



Hough Transform Image



Superimposed Lines on Edge Image



4 Corners Highlighted



Rectified Image

