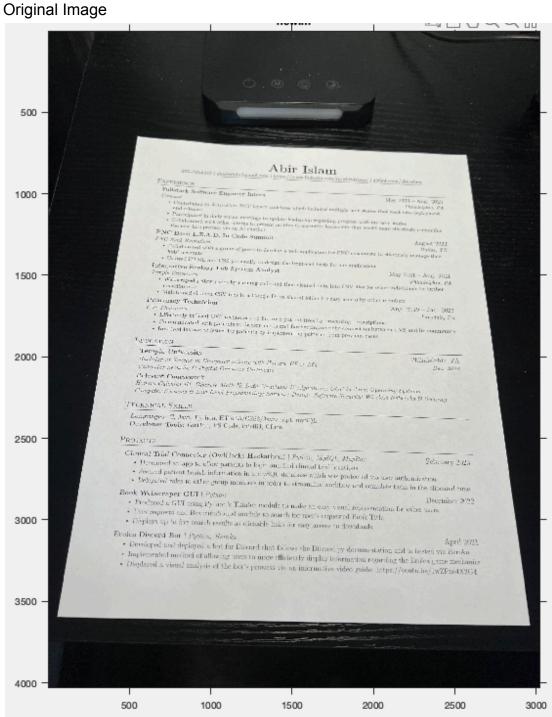
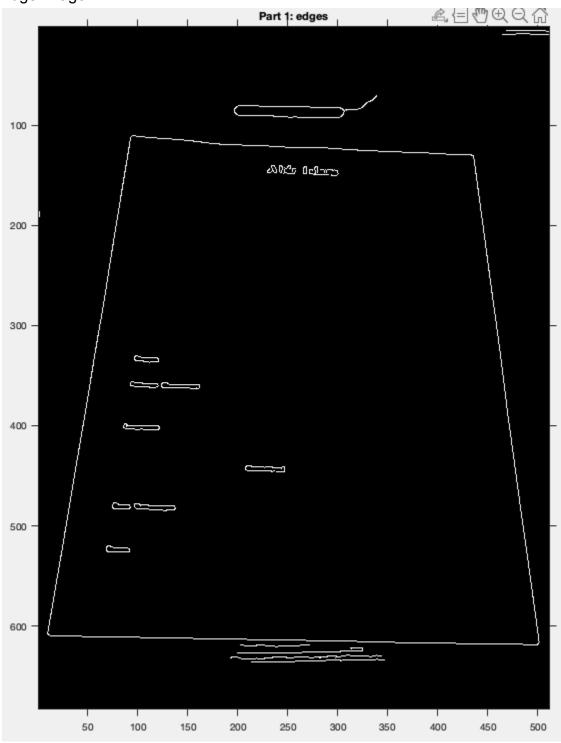
CS583 Project Report 10 December 2024 Abir Islam Seena Soroush

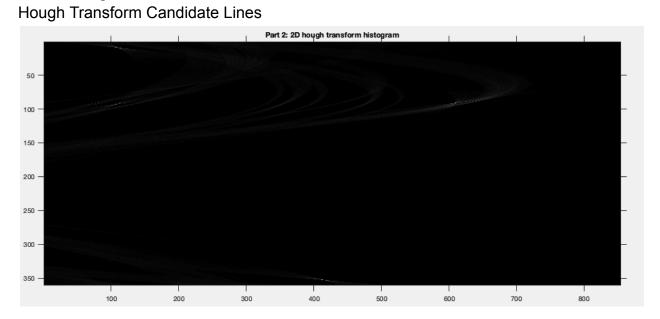
Part 1: Image Prep and Detection



Edge Image



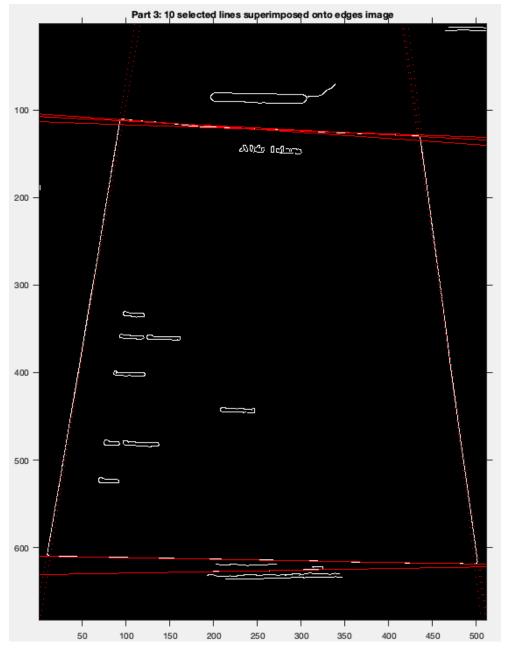
Part 2: Hough Transform for Line Detection



Part 3: Relevant Line Identification

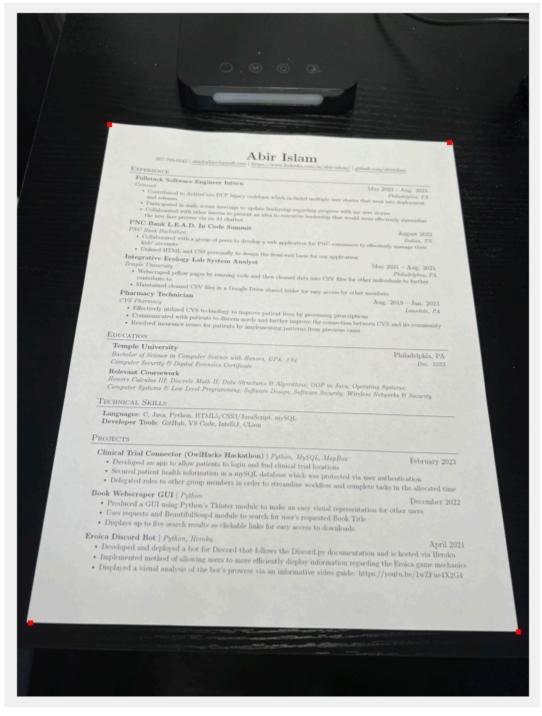
Superimposed lines on edge image

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



Rectified Image

Abir Islam

267-766-6542 | phytospedynal em | https://www.linkedmone/in/alap-islam/ | github.com/alateidem

EXPERIENCE

Fullstack Software Engineer Intern

May 2003 - Aug. 2003

- Philadelphia, P.S. Contributed to ActiveCore DCP legacy moletons which included multiple user stories that went into deployment. stirl privat
- Participated in dialy errors meetings to update leadership regarding program with my one stories
- Collaborated with other interns to present an idea to rescutive leadership that would note affectively streamless. the new hise pricess via an Al chathot.

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

Amenia 2022

Bullet, TX

PNC Bank Buckello

- Collaborated with a group of peers to develop a web application for PNC communes to effectively manage their Midd account
- Utilized MTML and CSS personally to design the front-end basis for our application.

Integrative Ecology Lab System Analyst

May 2021 - Aug. 2021

Temple University

Philadelphia, P.K.

- Webscraped yellow sages by couning code and then cleaned data into CSV time for other individuals to further contribute to
- Maintained cleaned CSV files in a Google Drive shand folder for eacy accoming other members

Pharmacy Technician

Aug. 2019 - Jun. 2023

CVS Phormacy

Limidale, FA

- Effectively utilized CVS technology to improve patient lives by proceeding prescriptions.
- Communicated with purious to divorm needs and further improve the consection between CVS and its community
- Resolved insurance issues for patients by implementing patients from previous cases.

EDUCATION

Temple University

Philadelphia, PA

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

Relevant Coursework

Honers Calculus III; Discrete Math II; Dala Structura & Algorithms: OOP in Java; Operating Systems, Computer Systems & Low Level Programming: Software Design; Software Security, Wireless Networks & Security

Languages: C. Java, Python, MTML5/CSS3/JovaScript, mySQL

Developer Tools: GitHub, VS Code, IntelliJ. CLion

PROJECTS

Circlest Trial Connector (GwiHacks Hackathon) | Python, MySQL, MapBox

February 2023

- · Developed an app to allow patients to login and find clinical trial locations
- · Scoped patient health information in a mySQL latabase which was protested via mor authentication
- Delegated roles to other group members in order to streamline workflow and complete tasks in the allocated time

Book Webscraper GUI | Python

December 2022

- · Produced a GUI using Pythan's Tkinter module to make an easy visual representation for other users
- Uses requests and ReantifulSoupal manuals to search for user's requested Book Title.
- · Displays up to five search results as eliciable links for easy access to describeds.

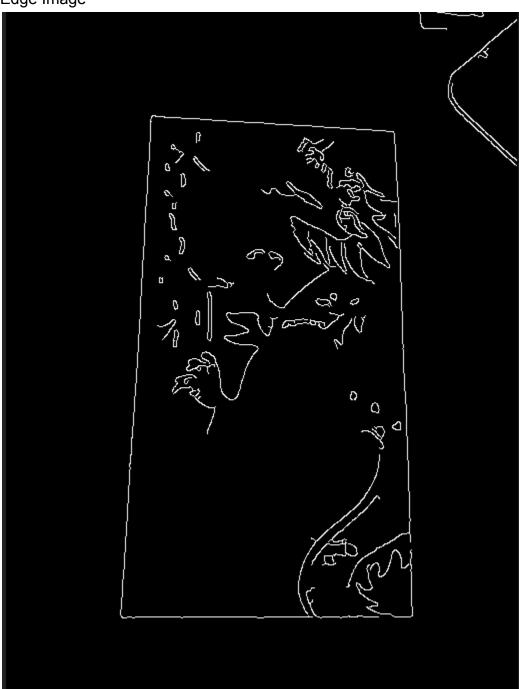
Essica Discord Bot | Pythou, Hernita

- . Developed and deployed a bot for Discord that follows the Discord by documentation and is bested up flexion.
- Implemented method of allowing seers to more efficiently display information regarding the Eroica yane mechanics
- Displayed a visual analysis of the bot's prowers via an informative video guide: https://youto.be/1mZFne4X2G6

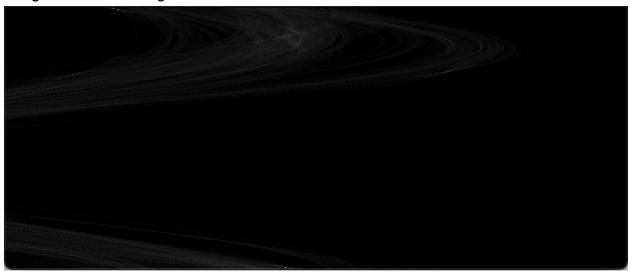
Part 6: Another Image! Original Image



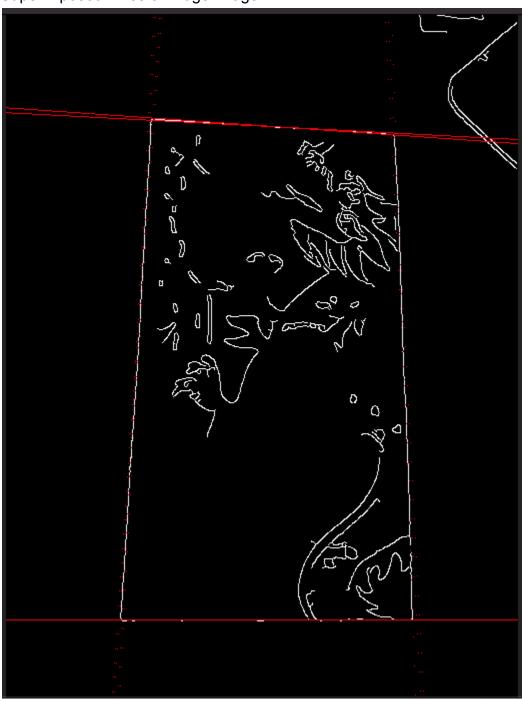




Hough Transform Image



Superimposed Lines on Edge Image



4 Corners Highlighted



Rectified Image

