

# Zohair ul Hasan

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## EDUCATION

### DREXEL UNIVERSITY

#### B.S. IN COMPUTER SCIENCE

Expected Graduation 2024 |

Philadelphia, PA

Current year: Sophomore

GPA: 4.0

Honors: Drexel AJ Merit Scholarship,

Dean's List in Fall, Winter, and Spring

2019 - 2020

Relevant Courses:

- Advanced Programming I & II (A+, A+)
- Advanced Programming Tools & Techniques
- Computing & Informatics Design

### CS 50 HARVARD ONLINE

#### COURSE | CERTIFICATE

June 2020 | Philadelphia, PA

Learned complex Computer Science topics including:

- Algorithms and Data Structures (C programming language)
- Pointers
- Memory management
- Databases
- HTML & CSS
- Python
- Flask

## SKILLS

### TECHNICAL SKILLS

General:

Python3 • C • HTML & CSS • JavaScript  
 SQLite • Git • Bash • Linux  
 Raspberry Pi • Awk • VB.NET • Microsoft  
 Office Suite • LaTeX • Markdown

Libraries &amp; Frameworks:

Flask • Numpy • Matplotlib • Requests  
 BeautifulSoup4 • Bootstrap 4

### LANGUAGES

- English
- Urdu
- Hindi

### SOFT SKILLS

Work Ethic • Time Management

Adaptability • Teamwork • Leadership

## RELEVANT EXPERIENCE

### DREXEL VERTICALLY INTEGRATED PROJECTS

#### SOFTWARE ENGINEER

Spring 2020 | Philadelphia, PA

- Led a team of 2 to program a Raspberry Pi in Bash using FFMPEG (a command line tool used to process video and audio) for recording video, compressing it, and uploading it directly to live stream on YouTube in real time
- Learned Bash Scripting and FFMPEG in 1 week to complete the task
- Reduced latency by 40% by optimizing key factors such as frames per second and video resolution
- Evaluated multiple options to complete the task and gave a presentation to **Professor Cairncross**

## TECHNICAL PROJECTS

### DREXEL COURSE AVAILABILITY NOTIFIER | GitHub

Fall 2020 | Philadelphia, PA

- Built a web-scraper in Python3 that notifies students via email when their selected course had available seats
- Impacted over 132 students at Drexel University who used this program to help them sign up for their courses easily
- Used the requests and BeautifulSoup4 libraries to manipulate HTML data and extract useful information
- Surveyed potential users and changed functionality based on feedback

### FINANCE WEB APPLICATION | GitHub

Summer 2020 | Philadelphia, PA

- Built a stock trading simulator web-application in Python3 using Flask
- Programmed in more than 4 languages after learning them in 2 weeks
- Implemented a database in SQLite to store login credentials (hashed) and user data
- Integrated IEX API to capture real-time stocks' data
- Styled website with CSS library Bootstrap4

### SPELL CHECKER | GitHub

Summer 2020 | Philadelphia, PA

- Implemented a program in C that spell-checks a text file using a hash-table
- Loads 143,091 dictionary words in memory and can check 965 words in 0.38 seconds

### IMAGE FILTER | GitHub

Summer 2020 | Philadelphia, PA

- Implemented a program in C that adds up to 4 Instagram esque filters to an image (gray-scale, sepia, reflection, blur)
- Manipulated bytes to modify pixels of an image according to the type of filter

## ADDITIONAL EXPERIENCE

### Intramural Sports Official at Drexel University

- Officiated 30+ basketball & soccer games
- Communicated with heated players to ensure safety for everyone