

# Zohair ul Hasan

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## EDUCATION

### DREXEL UNIVERSITY

#### B.S. IN COMPUTER SCIENCE

Expected Graduation 2024 |

Philadelphia, PA

Current year: Pre-Junior

GPA: 3.97

Honors:

- Drexel AJ Scholarship (\$42,000/yr)
- Dean's List in Fall, Winter, and Spring 2019 - 2021

Relevant Courses:

- Data Structures (A+)
- Advanced Programming I & II (A+, A+)
- Advanced Programming Tools & Techniques (A+)

### CS 50 HARVARD ONLINE

#### COURSE | CERTIFICATE

Summer 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 • Golang • Ruby  
Node.js & ES6 • React • MongoDB •  
SQLite • Git • Bash • Raspberry Pi

Libraries & Frameworks:

Flask • Numpy • Matplotlib • Requests  
BeautifulSoup4 • Bootstrap 4

## OTHER EXPERIENCE

Intramural Sports Official at Drexel University

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

## RELEVANT EXPERIENCE

### SAP AMERICA

#### SOFTWARE ENGINEER

Spring & Summer 2021 | Philadelphia, PA

- Developed a webapp, REST API, and an accompanying Terraform Provider written in Go to audit virtual machines
- Learned Docker and Kubernetes to create a platform independent application
- Created visualizations in Kibana using the Elasticsearch stack to understand data
- Learned to work in an international team over Zoom meetings

### DREXEL COLLEGE OF COMPUTING AND INFORMATICS

#### TEACHER ASSISTANT

Winter 2020 - Summer 2021 | Philadelphia, PA

- Created and sold a program designed to improve grading efficiency by a factor of 20
- Helped students understand complex concepts and cleared confusions

### DREXEL VERTICALLY INTEGRATED PROJECTS

#### SOFTWARE ENGINEER

Spring 2020 | Philadelphia, PA

- Led a team of 2 to program a Raspberry Pi in Bash using FFMPEG (command line program used to process video and audio) for recording video, compressing it, and uploading live stream to YouTube
- 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 has available seats
- Impacted over 132 students at Drexel University who used this program to help them sign up for their courses easily
- Utilized the requests and BeautifulSoup4 libraries to manipulate HTML data and extract useful information

### 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 3 weeks
- Implemented SQLite database to store hashed login credentials and user data
- Integrated the Investors Exchange API to capture real-time stocks' data
- Styled website with CSS library Bootstrap4