

# Zohair ul Hasan

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## EDUCATION

### DREXEL UNIVERSITY

#### B.S. IN COMPUTER SCIENCE

Expected Graduation 2024 |

Philadelphia, PA

GPA: 3.82

## TECHNICAL SKILLS

### PROGRAMMING LANGUAGES & LIBRARIES

Python3, Node.js & ES6, React, FastAPI, Ruby, Go

### OTHER

Docker, Kubernetes, Terraform, Jenkins, PostgreSQL, MongoDB, Git

## PROJECTS

### MARKETSIM

(January 2022 - March 2022)

[gitlab.com/Zohair-coder/market-sim](https://gitlab.com/Zohair-coder/market-sim)

Led a team of 5 to create a stock market simulator to invest with virtual currency using React.js, Node.js, PostgreSQL and web sockets to get real time stock data

### WHAT'S IN YOUR FRIDGE?

(September 2021 - March 2022)

[gitlab.cci.drexel.edu/ci102-3team1/whats\\_in\\_your\\_fridge](https://gitlab.cci.drexel.edu/ci102-3team1/whats_in_your_fridge)

Led a team of 4 to create a React webapp to help users find recipes based on ingredients they have in their fridge

### DREXEL COURSE NOTIFIER

(September 2020 - October 2020)

[github.com/Zohair-coder/Drexel-Course-Availability-Notifier](https://github.com/Zohair-coder/Drexel-Course-Availability-Notifier)

Built a web-scraper in Python3 that notifies students via email when their selected course has available seats, impacting over 130 students at Drexel University

### SAP HACKATHON

(July 2022)

Participated in a Hackathon and worked primarily on the backend, using Node.js and MongoDB

## RELEVANT EXPERIENCE

### SAP AMERICA

#### SOFTWARE ENGINEERING INTERN - ARTIFICIAL INTELLIGENCE

April 2022 - Current | Philadelphia, PA

- Contributed to an open-source ML platform (ML Lab [github.com/SAP/machine-learning-lab](https://github.com/SAP/machine-learning-lab)) that acts as a centralized hub for development teams to seamlessly build, deploy, and operate ML solutions at scale
- Integrated another open-source solution, ML Flow, for logging and tracking parameters, metrics and artifacts for each run into ML Lab
- Wrote plugin in Python3 for ML Flow to seamlessly work with ML Lab's JSON and file storage
- Wrote backend and front-end code in Python3 using FastAPI library and React.js respectively to integrate ML Flow into ML Lab

### SAP AMERICA

#### SOFTWARE ENGINEER - PRODUCTION MANAGEMENT PORTALS

April 2021 - March 2022 | Philadelphia, PA

- Interned as a full stack developer to develop and deploy a webapp, and an accompanying Terraform Provider written in Go to report virtual machines in use to SAP's internal auditing system
- Developed a front end in vanilla JavaScript and a backend in Node.js
- Learned and deployed apps using Docker and Kubernetes to improve reliability and scalability of the webapp
- Created Jenkins pipelines to automate the testing and deployment of the webapp and Terraform Provider by automatically pushing newly built webapp images to a registry and uploading the Terraform Provider executable to an Openstack objectstore
- Created a private Terraform registry to allow for easy Provider installation
- Wrote tests for the webapp and Terraform Provider to ensure quality/reliability
- Wrote scripts in Ruby to process big data
- Wrote Terraform modules to improve productivity for employees

## DREXEL COLLEGE OF COMPUTING AND INFORMATICS

### TEACHER ASSISTANT

April 2021 - Current | Philadelphia, PA

- Created and sold a program designed to improve grading efficiency by a factor of 20 for \$500
- Helped students understand complex concepts in Computer Science and cleared confusions by attending regular office hours
- Graded student homework

## DREXEL VERTICALLY INTEGRATED PROJECTS

### SOFTWARE ENGINEER

April 2020 - June 2021 | 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

### DREXEL UNIVERSITY

#### INTRAMURAL SPORTS OFFICIAL

Jan 2020 - March 2020 | Philadelphia, PA

- Officiated 30+ basketball and soccer games