

# Abir Mazumder

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## EDUCATION

### VANDERBILT UNIVERSITY

#### BS IN COMPUTER SCIENCE

May 2022 | Nashville, TN  
School of Engineering

## LINKS

Github: [AbirMazumder99](#)

LinkedIn: [Abir99](#)

Personal: [abirmazumder99.github.io](#)

## COURSEWORK

Programming and Problem Solving (Java)  
Data Structures and Program Design (C++)  
Intermediate Software Design (C++)  
Algorithms  
Principles of Software Engineering  
Web based System Architecture

## TECHNICAL SKILLS

Programming Languages  
(Ranked by Proficiency)

• HTML | CSS • Python • JavaScript • Java • C++ • SQL

Frameworks and Technologies

• Selenium • AWS Athena • Pandas • NodeJS • ReactJS | Native • Google Firebase • GitHub

Software

• Tableau Server • Alteryx • Collibra

## HONORS AND AWARDS PROJECTS

• Posse Foundation Full-Tuition Leadership Scholarship (2018 -2022)  
• QuestBridge Scholar (2018-2022)

## HOBBIES

• Drumset/ Percussion • Piano • Investing  
• Cricket • Table Tennis • Badminton

## WORK EXPERIENCE

### MOODY'S SHARED SERVICES | CENTRAL IT INTERN

June'21 - July'21 | Charlotte, NC

- Built a scalable data lineage utility from scratch that parses data end to end from development to production using Python, Pandas and JSON
- Improved impact analysis for stakeholders by reducing workload from several months to only several days with a team of 2 interns
- Achieved the "Best Team Collaboration" Award in Moody's Hackathon as the only intern group by building a networking website for interns by interns
- Undertook a Project Management role from ideation and requirements to delivery by working with technical and non-technical professionals alike

### ALCON RESEARCH LTD | INFORMATION TECHNOLOGY INTERN

June'20 - August'20 | Fort Worth, TX

- Built a web scraping application to automate data extraction from the FDA.gov website by using Python, TKinter, Pandas and the OpenFDA API
- Eliminated the need for manual data entry to improve the process of generating Alcon's KPI by using SQL, Alteryx and AWS Athena
- Extracted error free data to generate better graphical charts that show Alcon's performance compared to their competitors in terms of regulatory metrics

## LEADERSHIP

### JGS ROBOTICS TEAM | ENGINEERING DIRECTOR | FOUNDING MEMBER

October 2016 - June 2018 | Jamaica, NY

- Directed 20 team members in order to build a fully functional robot to compete in the FIRST Robotics Competition
- Assisted in a grant application for \$5000 from NASA in order to pay for the team's first competition

### VANDERBILT JAZZ ENSEMBLE | CO-CHAIR | CO-FOUNDING MEMBER

June 2021 - Present | Nashville, TN

- Conducted a band of 20 musicians to form a Jazz community and play for university events and local bars
- Combined with faculty and music students to incorporate improvisation into playing suitable Jazz Big Band pieces

### THE SAD PROJECT | CO-FOUNDER | FULL STACK DEVELOPER

June 2020 - Present | Virtual

- Collaborating with a friend to create a dating app inspired by a Facebook group's unique auction style dating
- Implemented the UI using React Native, backend API using Firebase, and a NoSQL database using Firestore

### PUSHING THE ENVELOPE | FRONT END DEVELOPER

June 2021 - Present | Virtual

- Collaborating with other developers to create a music blog website that deviates from traditional style blogging
- Adding features to the Admin Page to make UI more accessible using React, MaterialUI and TypeScript