

# Mafaz Chaudhry

mafazchaudhry.com  
mafazchaudhry05@gmail.com  
718-415-0737

## EDUCATION

**Vassar College**, Computer Science (B.A.)  
Poughkeepsie, New York | Expected Graduation 2022 | 3.70 GPA

## EXPERIENCE

**WKVR Radio Station**, Tech Director  
Poughkeepsie, New York | Incoming Fall 2020

- Building a new website using Django, HTML/CSS, JavaScript to display information about the radio station
- Overseeing all issues with the station's many computers, automation system, web stream, and digitization robot
- Acting as the liaison to the Media Resources Office

**Vassar College Computer Science Department**, Computer Science Coach  
Poughkeepsie, New York | January 2020 - Present

- Helping students with weekly lab assignments
- Assisting students with questions about homework assignments
- Holding multiple office hours throughout the week to help students with questions about course material

**Google**, Computer Science Summer Institute  
New York City, New York | July 2018 - July 2018

- Highly selective computer science immersion program facilitated by Google engineers
- Chosen as one of 30 students to participate in hands-on coursework based in Javascript, Python and App Engine
- Programmed a budgeting application using Python and stored user input values in DataStore so they could be retrieved at a later time by the user via REST endpoints

## PROJECTS

**3D Printed Medicine Dispenser** | Fall 2019

- Designed, prototyped, and built a medicine dispenser with three other individuals
- Implemented algorithm for sensors to detect when a pill had fallen out of its compartment
- Conducted user testing, and implemented changes requested by the client
- Used Scrum Agile Methodology in my work (Daily Scrum Meeting, Sprint Backlog, 1on1 meetings)

**Polynomial Calculator** | Spring 2019

- Designed and built a Polynomial Calculator using Java
- Implemented a tokenizer and a parser for the polynomial input and converted each character into a token and used parser to format tokens into postfix notation
- Wrote simple unit tests to check for accuracy of program

## COURSES

Problem-Solving and Abstraction  
Data Structures and Algorithms  
Foundations of Computer Science  
Software Design and Implementation  
Computer Organization  
Language and Computation Theory  
Analysis of Algorithms  
Parallel Programming

## SKILLS

**Proficient:**  
Python  
Java

**Experience with:**  
C  
HTML/CSS  
JavaScript  
Google App Engine  
Datastore  
RESTful API  
SQL

**Frameworks/Libraries:**  
ReactJS

**Other Skills/Concepts:**  
Full Stack Development  
Prototyping

## INTERESTS

**Online**  
Tech for Social Good  
Artificial Intelligence  
Machine Learning

**Offline**  
Film & Photography  
Music  
Drawing & Painting

## EXTRACURRICULAR ACTIVITIES

Main House Treasurer 2019-2020  
VSA Finance Committee Member  
VC++ Member