

# Mohammed Hasanul Abedin Chowdhury Rafi

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## Education

### University At Buffalo, The State University of New York

Fall 2021

- Major: Computer Science and Engineering, BS
- GPA: 3.4/4.0
- Coursework: Data Structure · Algorithms · Python · Scala · JavaScript · Electric circuit analysis · Programming Languages · Artificial Intelligence · Machine Learning · Operating Systems & Database systems · Statistical Analysis.

## Experience

### London App Brewery - iOS Developer Boot Camp

May 2019-Present

- Built 20+ iOS app that helped Learning to work with Apple's UI Framework - SwiftUI.
- Mastered creating Augmented Reality apps using Apple's new ARKit.
- Created apps that Machine Learning uses Apple's new CoreML and mastered app design and marketing to publish apps.

### NASA - MAA Robotics Instructor

June-Aug 2019

- Helped 200+ High School and Middle School students to build their Arduino robot projects.
- researched & built our GPS using Python and Raspberry Pi.
- Created robots that can take orders, detect things and perform multiple tasks at the same time.

### Lynda.com - Certified Fullstack Developer & Machine Learning specialist

June-Aug 2018

- Developed five business websites that can take data and process it in real time by using React and Google analytics.
- Developed three web games using python and javascript.
- Implemented machine learning techniques to create Industry level recommendation applications for online stores.

## Hackathons and Projects

### Robotics Club Software Engineering Projects:

Aug'19-Present

- Developing prototypes of a mobile application to help minimize the time required in giving instructions to a robot.
- Helped Building, designing and coding for the Vex-U Robotics challenge with two new robots for the robo-tournaments.
- Helped Build autonomous vehicles for IGVC, creating systems by using AI and machine learning techniques.

### Big Red Hacks 2019

Sept '19

- Built an iOS App for the Smart Mailbox Using Raspberry Pi and Python that can help the user find a safe way to get mail.
- Helped Building a timer app with python and javascript that aimed to help gamers while playing real-time.

### NY massive evacuation Hackathon 2019 by MD5

Oct '18

- Built a drone system to create communication between wounded people in the destruction area and protective place.
- Created the elevator pitch for the newly designed drone with software combination with Google Maps.
- Used Google Cloud Platform and 3rd most innovative pitch out of 50+ competing teams.

## Skills

**Proficient:** Java (2 year) · Git (1.5 year) · Python (2 year) · C++ (2 year) · JavaScript(1.5 year) · MATLAB(1.5 Year)

**Familiar:** Swift (<6 months) · MySQL(1year) · Bootstrap(1 year) · Scala(<6 months) · Flutter(1 year)

**Soft Skills:** Project Management · Microsoft Office · Resilient work ethic and time management skills

**Linguistics:** English · Bangla · Arabic · Urdu · Hindi · Punjabi

**Design Skills:** Adobe Photoshop · Adobe Premiere ProX · Adobe illustrator · Final Cut Pro · After Effects

## Leadership Experience and Activities

- Board of Directors at UB Undergraduate Student Association, helping with the clubs funding and Social Media.
- Former Senator at Queensborough CC Student Government and Former Photographer and Editor at CSTEP.
- Soccer Captain of Cunningham Youth Soccer Team in Queens, NY.
- Project Engineer at UB AIAA, UB Hyper Bull, UB IEEE, and UB Robotics.
- An Active member in UB Debate, UB Tennis, UB MSA, UB Hackathon.