

Mohammed Hasanul Abedin Rafi

Electrical Engineer • Data Scientist • Software Engineer

hasanulrafi46@gmail.com | 929-732-0862 | hasanulrafi.com | GitHub | LinkedIn

Education

University At Buffalo, The State University of New York

Fall 2020

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

Experience

London App Brewery Bootcamp --- • Built 30+ 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 which Machine Learning using Apple's new CoreML • Mastered app design and marketing to publish apps. May'19-Present

NASA MAA Robotics Instructor --- • 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. June-Aug'19

Research Foundation of CUNY --- • Researched on robots in the field of Geology • Understood the climate change with the High School students and finish the research on geological change in the Gulf of Mexico • Worked with the robotics team to build a demo for Mars planetary robots.

Hackathons/Projects

Undergraduate Software Engineering Projects:

Aug'19-Present

- Developing prototypes of a mobile application to minimize the time required • Preparing for the Vex-U Robotics challenge by building/design two new robots, code the robots for 3 prospective tournaments • Helped Building autonomous vehicle for IGVC, creating systems by using AI and machine learning.

Big Red Hacks 2019

Sept '19

- Build the Smart Mailbox Using Raspberry Pi and Python. Build an iOS App to support the system that can help the user find a safe way to get mail • Helped Building C++ projects that aimed to help gamers while playing real-time.

NY massive evacuation Hackathon 2019 by MD5

Oct'18

Found the idea to build 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 or JS (1.5 year)
- **Familiar:** swift (<6 months) · MySQL(1year) · Bootstrap(1 year) · Node Js (<6 months) · jQuery(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 Director at UB Undergraduate Student Government Association, helping with the clubs funding and Social Media • Former Senator at Queensborough CC Student Government • 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. Helped Designing and Coding to Build Engineering projects • Active member in UB Debate, UB Tennis, UB MSA, UB Hackathon.

