Helal Chowdhury

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EDUCATION

New York University, Tandon School of Engineering   Brooklyn, NY
Computer Engineering B.S. | GPA: 3.5   Expected: May 2021
Coursework: Data Structures · Algorithms · Object Oriented · Databases · Blockchain · Computer Architecture

SKILLS

Programming: Proficient: Python · C++ · Swift · C | Familiar: JavaScript · Java · MySQL · HTML5/CSS
Software: Git · Jira · IBM Watson · Google Firebase · Kubernetes · Microsoft Azure · AWS

EXPERIENCE

NYU Division of Libraries Innovations Team   Brooklyn, NY
Lead Software Developer   Apr. 2019 – Present
- Program 60+ Arduino's and sensors for large-scale projects to be used in NYU Libraries to help with student interaction.
- Create efficient programs using Python to acquire data from Arduino's and Raspberry Pi's to monitor software usage.
- Develop iOS apps to allow NYU students to view all the services available in the library and view available rooms for booking.

Design Technologies   New York, NY
Frontend Software Engineer Intern   Nov. 2018 – Jan. 2019
- Developed websites and UI designs using HTML5/CSS for 3 sub-companies which include ELabNYC, ABCT, DesignTechnologies.
- Utilized frameworks for design modifications on third party websites and developed a home webpage based on numerous projects.
- Managed content updates while using Jira software to fix bugs and errors found by the quality assurance and content team.

Barbarian   New York, NY
Software Engineer In Testing   Jun. 2018 – Aug. 2018
- Managed websites and updated new content for 10+ clients such as Samsung and ABInBev, for myriad desktop and mobile devices.
- Automated application testing programs using Java that run on 5+ webpages at a time to detect front-end and back-end errors.
- Identified the type of software issue and delegated tasks to the appropriate teams to fix bugs by communicating through Jira.

PROJECTS

Seedit Application
- A platform for startups to pitch their business ideas for investors to view and invest in companies while tracking company growth.
- An iOS app which manages secure transactions through Stripe API, and video/messaging communication with CEO's and investors.
- In process of releasing on the app store and reaching out to 30+ startups and 100+ potential investors in NYC to kickstart the app.

The Parking Lot
- A system to track population density of 4 zones at NYU Library to help 1000+ students know which areas have space available.
- Program Raspberry Pi's to work with ultrasound sensors installed in every seat to detect which seats are currently in use.
- Expanding project to 3+ NYU libraries and developing innovative algorithms to detect occupancy based on varying seat formations.

Augmented Reality Experience
- An application that allow users to place 5 different objects in AR using iOS ARKit around the room for home design planning.
- In progress of being able to interact with objects to gamify the experience and implementing custom objects into the AR space.
- Utilizing geolocation to trigger AR objects to appear within a 200m radius, while being consistent with users in the same location.

AWARDS

New York University Hackathon   Mar. 2020
1st Place | $200 and Oculus Go |340+ Competitors
   iOS · Stripe API · Google Firebase · Speech Recognition

Cornell University Hackathon   Aug. 2019
1st Place | $1000 | 320+ Competitors
   iOS · Apple Maps/Calendar · IBM Watson · Google Cloud

Estée Lauder Hackathon   Oct. 2019
1st Place | $7500 | 36+ Teams
   iOS · Microsoft Azure · Firebase · IBM Image Recognition

Cooper Union Hackathon   Aug. 2019
2nd Place | Google Tour |150+ Competitors
   iOS · Apple Maps · Route Directions · IBM Watson

JP Morgan Code For Good   Sep. 2019
1st Place | Internship Offer |140+ Competitors
   iOS/Android · Apple Maps · Google Hangouts · IBM Watson

South Asian Engineering Scholarship   Nov. 2018
$5000 | 1 of 5 Scholarship Recipients
   Chosen from 800+ applicants from the United States

IBM Code And Response   Sep. 2019
1st Place | Trip to Scotland | 30+ Teams
   iOS · IBM Machine Learning · Firebase · Google TensorFlow

TEDx Brooklyn Tech   Jun. 2017
Featured Speaker | Chosen as 1 of 3 speakers
   Speech on the effects of monetary wealth on happiness