Helal Chowdhury
Software Engineer

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Education

New York University   *Brooklyn, NY*

B.S. Computer Engineering, GPA: 3.5/4.0   *Expected Graduation: May 2021*

- **Relavent Coursework:** Data Structures · Algorithms · Object Oriented · Databases · Digital Logic · Linear Algebra

Skills

Programming: Proficient: Python · C++ · Swift · HTML5/CSS | Familiar: JavaScript · Java · mySQL

Software: Git · Jira · Firebase · IBM Watson · Kubernetes · WordPress · Autodesk Inventor · MATLAB

Experience

NYU Dibner IT   *Brooklyn, NY*

IT Lead Programmer   *Apr. 2019 - Present*

- Program sensors and motors using Python for large-scale projects to be used in NYU Libraries to help with student interaction.
- Model PCB's and solder components such that the hardware designs can interact with the Raspberry Pi's to carry out the program.

Design Technologies   *New York, NY*

Frontend Programmer   *Nov. 2018 - Jan. 2019*

- Developed websites and UI designs using HTML5/CSS for 3 sub-companies which include ELabNYC, ABCT, DesignTechnologies.
- Utilized WordPress for content updates on third party websites, and used Jira to report bugs and errors to the site developers

Barbarian   *New York, NY*

Quality Assurance Analyst   *Jun. 2018 - Aug. 2018*

- Managed websites and updated new content for clients such as Samsung and ABInBev, for myriad desktop and mobile devices.
- Tested application features to fix front-end and back-end errors and delegated tasks to fix bugs by communicating through Jira software.

Projects

Together

- An iOS app that allows users to view social events near their area to help out in, and invite friends to tag along and compete with for social good.
- Utilizes Apple's native features such as Apple Maps, and Calendar, as well as IBMs Machine Learning and Google Cloud platform.

The Parking Lot

- A system to track population density of 4 zones at NYU Dibner Library to help 1000+ students know which areas have seats available.
- Program Raspberry Pi's to work with ultrasound sensors installed in every seat to detect which seats are currently in use.

Eternity

- An iOS app that facilitates awareness of daily resource consumption by tracking users' Carbon Footprint number via AI and Machine Learning.
- Utilizes Google Cloud and Trip Advisor API to create an iOS app that helps users keep track of their food, travel, spending and utility use.

Awards

JP Morgans Code For Good

- Received First Place overall project out of 140+ competitors chosen from 1000+ applicants, by creating an app for the NGO Global Nomads Group.
- Developed an iOS and Android app that utilizes Google Hangouts and Maps to allow video calls with people all across the globe in multiple platforms.

IBM Code And Response

- Obtained First Place prize on IBMs Code and Response Challenge against 80+ teams; built using Swift, IBM Watson Image Recognition and Assistant.
- Developed an iOS app that utilizes IBMs Machine Learning and Google Cloud platform to help NGOs obtain help for disaster relief events.

Cornell Hackathon

- Received First Place overall project against 100+ teams in Cornells BigRedHacks; built using Swift, IBM Watson, Maps and route directions.
- Developed an iOS app that foster social good amongst users by competing with one another to attend more volunteer events near their area.

HackCooper

- Won Second Place overall project against 150+ competitors; built using Swift, Map API, FlyoverKit, Geo-fencing, and location tracking.
- Created an iOS app that lets users see non-profit events near them via Apple Maps, and register for them to foster community growth.

TEDx Brooklyn Tech

- Chosen as 1 of 3 speakers to present a idea on TEDx Brooklyn Tech. to over 300+ people, alongside myriad renowned CEOs and entrepreneurs.
- Presented a talk on the effects of monetary wealth on an individuals happiness and its correlation to being content with life and eagerness to need more.