

Helal Chowdhury

SOFTWARE ENGINEER

✉ hchowdhury3273@gmail.com | 🌐 www.helalchowdhury.com | 📞 hchowdhury3273 | in helal-chowdhury

Education

New York University

Brooklyn, NY

B.S. COMPUTER ENGINEERING, GPA: 3.5/4.0

Expected Graduation: May 2021

- **Relevant 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

Soft: Project Management · Leadership · Public Speaking · Organization · Teamwork · Self-Motivated · Communication

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 - CornellHacks

- Received First Place overall project, and First Place IBM Challenge against 100+ teams; built using Swift, IBM Watson, Image Recognition, and Maps.
- Developed an iOS app that utilizes IBM's Machine Learning and Google Cloud platform to connect NGO's with users around their area.

Sunday - 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.

The Parking Lot Project

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

Eternity - HackRPI

- Utilized Google Cloud and Trip Advisor API to create an iOS app to compete against 60+ teams in Rensselaer Polytechnic Institute.
- Developed an iOS app that facilitates awareness of daily resource consumption by tracking users' Carbon Footprint number.

Uplift - HackNYU

- Competed with 100+ teams using API's from Google and IBM; built with cloud computing from Firebase and IBM Watson's Machine Learning.
- Built an iOS app which creates an online community for the terminally ill by sharing their stories and connecting them with others patients.

HydroHub - I2E Tournament

- Selected to be in 1 of 4 teams to create a product and compete based on the exhibition of its invention, innovation and entrepreneurship.
- Created a smart water bottle system which tracks water intake and temperature while displaying the data on an app and a built-in LCD screen.

TEDx Brooklyn Tech

- Chosen as 1 of 3 speakers to present a idea on TEDx Brooklyn Tech. to 300+ people, alongside 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.