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 · WordPress · Autodesk Inventor · MATLAB · Microsoft Office

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 numerous 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*

Content Manager — *Nov. 2018 - Jan. 2019*

- Updated the contents and design of myriad websites from 3 sub-companies; ELabNYC, ABCT, DesignTechnologies.
- Utilized WordPress for content updates, data entry, design modifications and reported bugs and errors to the site developers

Barbarian — *New York, NY*

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

- Created 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

Sunday - HackCooper

- Won Second Place overall project against 150+ competitors; built using Swift, Map API, FlyoverKit, Geo-fencing, and location tracking.
- Developed 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 four zones at NYU Dibner Library to help 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.

Smart Mouthguard

- Won the Academic and Faculty Award out of 8 teams after presenting group project to researchers and scientists at Columbia Labs.
- Constructed a mouthguard that can wirelessly transmit body temperature to an app and alert users when the temperature rises too high.

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.