

Benjamin Carney

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<https://benjamincarney.github.io/>

EDUCATION

University of Michigan, Ann Arbor, MI

Bachelor of Science in Computer Science

April 2020

GPA: 3.14/4.00

Coursework: Data Structures and Algorithms, Discrete Math, Calculus I & II, Probability, Statistics, Computer Organization, Computer Security, Physics I, Spanish

EXPERIENCE

Delivry Co, Ann Arbor, MI

April 2018 - August 2018

iOS Development Intern

- Collaborated alongside fellow iOS development interns in the designing and implementation of front-end interface using Swift programming language to achieve a presentable user interface and reliable core functionality
- Incorporated several external APIs including GoogleMaps, Stripe, AlamoFire, and a number of other open source projects in order to enhance app features and capabilities
- Established links with backend server for user login and registration, payment, and order history

Clinton River Watershed, Rochester Hills, MI

April 2017 - August 2017

Education and Research Intern

- Collected, analyzed, and logged water quality data retrieved from over 760 square miles of urban landscape in order to gauge severity of local stream degradation and pollution
- Compiled and presented stream quality data to supervisors and fellow employees, identifying problem-areas throughout various Metro Detroit communities
- Engaged in multiple education initiatives with local schools that were aimed at increasing stream quality awareness among grade-school students

At-Home Music Lessons, Rochester Hills, MI

November 2015 - August 2016

Music Instructor

- Conducted private, one-on-one guitar, bass guitar, and piano lessons with several personal students which aimed at refining each individual's performance technique and ability
- Created detailed curriculums personally attuned to each student's musical ability which consistently challenged their current level of musicianship and which encouraged personal growth
- Coordinated large, bi-annual music recitals, showcasing over one hundred individual student's personal progress over a 6 month period

PROJECT EXPERIENCE

Michigan Hackers iOS App

August 2018 - Present

Core Team Lead

- Led a team of undergraduate students in the designing and implementation of iOS application for Michigan Hackers Organization using Swift

Garduino

April 2018 - August 2019

Automated Irrigation System

- Utilized arduino microcontroller to automate irrigation system within my personal garden throughout the spring and summer seasons of 2018, producing a yield of crops open to general public to pick and enjoy from
- Implemented code in C++ which read input soil moisture data from resistive soil-moisture sensor, resulting in either the flow or stoppage of water through gate within electric solenoid valve based on specific water content threshold

Personal Website

April 2018 - August 2018

A static website used to showcase personal projects

- Devoted free time throughout summer term to teaching myself HTML, CSS, Javascript, and Bootstrap framework in order to achieve the launch of my personal website for the Fall of 2018
- Self-taught a number of important web-development concepts essential to building accessible and responsive web pages for multi-platform viewing and interaction
- Utilized functional design concepts in order to achieve appealing and presentable appearance fit for the modern internet

SKILLS

Programming Languages

- Proficient: C, C++, Swift, Python, Javascript, HTML, CSS
- Familiar: Objective-C, Ruby, R, PHP, SQL, Java

Software and Development Tools

- Git, XCode, Atom, Brackets, PyCharm, Unix, Mac OS, Microsoft Office

Languages

- Spanish

EXTRACURRICULARS

Random Acts of Kindness General Member, Photographer

September 2018 - Present

Michigan Hackers iOS Core Team Lead, Core Team Member, Photographer

September 2017 - Present

Phi Theta Kappa Honor Society

September 2016 - Present