

Benjamin Carney

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Education

University of Michigan - Ann Arbor

GPA: 3.11

BACHELOR OF SCIENCE IN COMPUTER SCIENCE

Expected Graduation April 2020

Coursework: Data Structures and Algorithms, Information Retrieval, Web Systems, Software Engineering, Computer Architecture, Programming Languages, Theory of Computation, Discrete Mathematics, Statistics, Calculus I & II, Spanish

Work Experience

The Home Depot

Atlanta, GA

SOFTWARE ENGINEER INTERN

May 2019 - August 2019

- Contributed 500+ lines of code to "Device Tracker", a React/Node.js application that would be used to locate 1000+ misplaced Android devices across hundreds of Home Depot retail locations, yielding hundreds of thousands of dollars in savings in labor and replacement costs
- Initiated the development "App360", a React/Node.js/MongoDB application that aimed to consolidate data on hundreds of Home Depot software applications, allowing directors, managers, and associates to gain vast insights into the current state of Home Depot technology

RollOut Deliveries

Ann Arbor, MI

iOS SOFTWARE ENGINEER INTERN

May 2018 - August 2018

- Achieved MVP peer-to-peer food delivery iOS/Swift application in a team consisting of 3 engineers over the course of 12 weeks, utilizing GoogleMaps API as the primary engine behind core functionality
- Engineered end-to-end user registration, authentication, and payment flows to establish secure and reliable storage of user's personal information, utilizing Google Firebase as primary data layer and Stripe API for secure transactions

Projects

Garduino

GitHub: [benjamincarney/Garduino](#)

AN AUTOMATED IRRIGATION SYSTEM THAT UTILIZES A RESISTIVE SOIL MOISTURE SENSOR, A DC POWERED SOLENOID VALVE AND AN ARDUINO CIRCUIT BOARD TO PREVENT OR ALLOW THE FLOW OF WATER THROUGH MY PERSONAL GARDEN. WRITTEN IN C++.

PhotoAssassin

GitHub: [photo-assassin-app](#)

HEADED A TEAM OF 15 MICHIGAN HACKER iOS TEAM MEMBERS IN THE PLANNING, DESIGNING, AND IMPLEMENTATION OF A GAMIFIED iOS APPLICATION CENTERED AROUND DISCRETELY TAKING PHOTOS OF OPPONENTS IN ELIMINATION-STYLE ROUNDS. WRITTEN IN SWIFT

Personal Website

[benjamincarney.github.io](#)

A PERSONAL WEBSITE USED TO DISPLAY VARIOUS PROJECTS THAT I HAVE COMPLETED IN THE PAST FEW YEARS. USED Jekyll, Bootstrap, JQuery, and SASS

Leadership

Michigan Hackers (President)

[michiganhackers.org](#)

2019-PRESENT

- Direct and operate the largest computer science organization at the University of Michigan, boasting consistent weekly attendance rates of over 40 members and over 2,000 Facebook page likes
- Orchestrate weekly "Hack Nights" and facilitate a wealth of social and technical learning opportunities through 7 large-scale project teams, core team bonding events, and company tech talks

Michigan Hackers (iOS Lead Engineer)

[michiganhackers.org](#)

2018-2019

- Oversaw an agile software development team consisting of over 12 undergraduate computer science students in the deployment of two large-scale iOS applications during the 2018-2019 school year
- Directed weekly stand-up meetings and administered Trello task boards to accelerate agile development, yielding significant improvements in team efficiency and productivity

Skills

Programming

- **Proficient** - C++, Python, Swift, JavaScript, ReactJS, NodeJS, HTML/CSS, LaTeX, Markdown, Bash, MongoDB
- **Working knowledge** - React Native, Java, Arduino, SQL, XML, Flask

Tools

- Git, OSX, Xcode, Bash scripting, Visual Studio Code, Sketch, Figma, Microsoft Excel, Powerpoint, Word