Benjamin Carney

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Education

University of Michigan - Ann Arbor   *GPA: 3.21*

BACHELOR OF SCIENCE IN COMPUTER SCIENCE   *Expected Graduation May 2020*

Coursework: Data Structures and Algorithms, Information Retrieval, Web Systems, Software Engineering, Computer Architecture, Discrete Mathematics, Statistics, Calculus, 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
- Implemented "App360", a React/Node.js/MongoDB application that aimed to centralize 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*

- Designed and implemented peer-to-peer food delivery iOS/Swift application in a team of 3 other interns over the course of 15 weeks, utilizing GoogleMaps API as the primary engine behind core functionality
- Individually implemented end-to-end user registration, authentication, and payment methods to achieve secure and reliable storage of user's personal information, utilizing 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*

LEAD 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, AND SASS

Leadership

Michigan Hackers (President)   *michiganhackers.org*

2019-PRESENT

- Currently serve as the President of Michigan Hackers, 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
- Responsible for directing weekly "Hack Nights" and leading a tightly knit community of students seeking to build the necessary social and technical skills needed to thrive in an increasingly technology-dependent, fast-paced world

Michigan Hackers (iOS Lead Engineer)   *michiganhackers.org*

2018-2019

- Led an agile software development team consisting of over 12 undergraduate computer science students in the development of two separate iOS applications during the 2018-2019 school year
- Directed weekly standup meetings and implemented Trello task boards to drive agile development, leading to a significant improvement in team efficiency and productivity

Skills

Programming

- **Proficient** - C/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, Sketch, Figma, Microsoft Excel, Powerpoint, Word