

# Christopher Allen

Chriswallen16@gmail.com | (860) 371-8365  
11 Parker Street | Malden MA | 02148

---

## Education

**Wentworth Institute of Technology** – Boston, MA  
Bachelor of Science in Computer Science  
Minor in Business Management  
Overall GPA: 3.81, Dean's List

---

August 2016

## Work Experience

**BambooRose** – Boston, MA

*Software Engineer*

September 2016 - Current

- Full stack web development in Java and Oracle/SQL Server
- Assisted with architecture design of new Food and Formulation PLM system; designing, developing, and integrating with internal and external systems
- Implemented designs, including developing and testing among multiple iterations
- Continually wrote technical documentation, working against software requirements and client requests
- Worked efficiently with design team and QA to ensure software solution was optimal for user experience

**United Self Defense** – Medford, MA

*Co-Owner*

June 2018 – June 2019

- Designed a business plan for operating a self defense and fitness facility
- Developed website using Laravel PHP framework and AngularJS for admin dashboard. Implemented mass emailing for updates, email templates, admin user management, etc (website: [unitedselfdefense.chris-allen.me](http://unitedselfdefense.chris-allen.me)).
- Onboarded new students and prospects, teaching basic and intermediate movements following our curriculum.

**BambooRose** – Boston, MA

*Software Developer Intern*

September 2015 – December 2015

- Created a Java web application for customer use to interface with the main product
- Communicated with Technical Project Support to focus on testing, debugging, and updating
- Created documentation and assisted with customer deployment

**United Technologies Aerospace Systems** – Windsor Locks, CT

*Software Engineer Intern*

May 2014 – April 2015

June 2013 – August 2013

- Created and updated code in C to comply with the requirements and design for Engine Control Systems
  - Designed and implemented change requests for various stages along the software development life-cycle
  - Wrote and performed testing and verification procedures and scripts to ensure code complies with requirements
  - Created various automation metrics to analyse documents and data and produce visuals (distributed to and used by multiple suppliers of UTC worldwide)
- 

## Projects / Laboratory Work

*VizSort*

- React web application that allows user to generate random lists and visually see how different sorting algorithms are implemented (such as merge sort, quick sort, bubble sort), stepping through the implementation step by step

*Autonomous Quadcopter*

- Multirotor vehicle that utilizes ROS to create and implement SLAM and A\* to map and traverse an unknown environment
- Written in C++ and currently in a simulation environment with Gazebo

*Fitbit Vending Machine*

- Built vending machine with a mobile application that uses Fitbit step data as currency to purchase items
  - Three components; vending machine with Spark Core microcontroller (C++), TCP server (NodeJS), mobile phone application (Apache Cordova – HTML, CSS, JavaScript)
- 

## Technical Skills & Abilities

Knowledgeable In – Java, JavaScript, PHP, C++, C, SQL, Python, Visual Basic for Applications

Software – Eclipse, PHPStorm, Visual Studios, Microsoft Office, Arduino IDE

Other Skills – Amazon Web Services, React, Laravel, Bootstrap, Git, Apache Tomcat, Apache Cordova, Oracle, MySQL, SQL Server

---