

# Justin Buttrey

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## EDUCATION

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### Tennessee Technological University

GPA: 3.66

B.S. Candidate | Computer Science

Concentration: Software and Scientific Applications

**Coursework:** Principles of Computing, Introduction to Problem Solving and Computer Programming, Data Structures and Algorithms, Discrete Structures

### Volunteer State Community College

GPA: 3.79

A.A.S. Candidate | Computer Science

Concentration: Programming

**Coursework:** Fundamentals of Web Programming and Design, Programming in C#, Intro to .NET Programming, Programming in C++, Microcomputer Databases, Advance Database Concepts & Programming, Introduction to Programming Logic, Using Mobile Applications

## SKILLS

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**Languages:** C#, C++, JavaScript, HTML, CSS

**Libraries:** .Net, Bootstrap, jQuery, Node.JS

**Tools:** Visual Studio, Visual Studio Code, Notepad++, Git

## PROFESSIONAL EXPERIENCE

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### Electronics Technician, Gaylord Opryland Hotel

May. 23 – Present

- Created a C# console application to control lights using the DMX512 standard. Packets are sent via USB to a DMX controller that converts the input to the DMX512 signal and sends it through DMX cables to the light fixture
- Assisted with rewriting sections of old Python scripts, making the file easier to read and more efficient.

## PROJECTS

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**Civil Air Patrol Web App (2019):** Created a web app that allowed for real time communication on a local area network. Used SimplePeer library to create WebRTC peer to peer connections. Clients receive peer information from a Node.JS server and then establish a connection with each other as a mesh network.

**Reddit Auto Reply Bot (2018):** Developed a bot for Reddit that automatically replies to specified users with predetermined messages. Runs on a Flask server and uses PRAW API to connect to Reddit. The bot scans unread messages, looks for specified users, replies to them and marks the message as read.

**DMXConsole (2018):** Built a console application that sends packets through a USB cable into a FTDI adapter which converts it to DMX512 and outputs it through DMX cable. Uses the FTD2XX library to communicate with control. Allows users to configure channels, create groups, and modify light levels.

## ACHIEVEMENTS

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**Dean's List (2018):** Made the dean's list for maintaining straight A's

**Certification (2018):** Earned the freeCodeCamp "Responsive Web Design" certification