

Tom Sciano

Fort Collins, Colorado

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Education

Colorado State University

B.S. IN APPLIED COMPUTING TECHNOLOGY (COMPUTER SCIENCE)

Fort Collins, Colorado
August 2019

Front Range Community College

ASSOCIATES OF ARTS

Fort Collins, Colorado
August 2016

Work Experience

Techie Tom's

COMPUTER REPAIR AND CONSULTING

Software Development and Websites
Nov 2013-Present

Skills

Programming

Python, Java, Javascript, React, Angular, Electron, HTML, C++, C, Bash, Perl, SQL, Assembly

Skills

Agile Development, Scrum, Code Climate, Continuous Integration, Restful API, Github, Maven, Test Driven Development, ZenHub, Parallel Programming, Unity, Unreal Engine, AutoCAD

Undergrad Courses

C++ Software Development, Data Structures and Algorithms, Discrete Structures, Computer Organization, System/Network Security, Operating Systems, Web Development, Network and System Admin, Javascript and Java Software Engineering, Database Systems

Operating Systems

Linux (Fedora, Ubuntu, Debian, Raspbian), Windows, Mac OSX

Undergraduate Projects

React Travel Site

JAVA, JAVASCRIPT, MAVEN, GITHUB, RESTFUL API, REACT

CS 314 Software Engineering

- Engaged with 3 other teammates in an Agile Development work environment.
- Performed code analysis on front end and back end.
- Maintainability through Travis CI, Code Climate, and Github.
- Optimized nearest neighbor using 2 opt and 3 opt algorithms.

Library Database and Interface

JAVA, PYTHON, MYSQL, JAVA SWING

CS 430 Database Systems

- Developed a MySQL Database and Interface Programs. Learned Java Swing to create a custom Database GUI
- Implemented custom file read in, error checking, and input into a database.
- Produced Console GUI and Java Swing GUI for database operations and searching.

Demeter

JAVASCRIPT, PYTHON, C++, MQTT

CS 370 Operating Systems

- Automated Gardening System using MQTT and Microcontrollers. <https://github.com/zombodotcom/Demeter/>
- Measures Temperature, Humidity, Light, Soil Moisture, and allows for Automated Watering.

State Attractions Website

SQL, HTML, PHP

CT 310 Web Development

- Combined MySQL and a PHP MVC to create a Front and Back end of an attractions website.

Independent Projects

Zombpoe

ELECTRON, ANGULAR, CROSS PLATFORM APPLICATION

2019-Present

- Gathers data from Path of Exile API and Poe.Ninja API.
- Prices stash items using comparison between JSON responses.
- <https://github.com/zombodotcom/Zombpoe>

Lumos LED App And Lumos Sound Reactive Hat

ARDUINO, ANDROID, BLE, C++, HTML, EAGLE, KICAD, OSH PARK

- Developed Android App with BLE based microcontroller control. <https://github.com/zombodotcom/Lumos-Led-Stuff>
- Developed PCB for CMOS chip and microcontroller integration.
- Sound Reactive Hat using an MSGEQ7 for audio conversion. <https://youtube.com/watch?v=My4ZGVWx4LA>

Motivator Bot

PYTHON, OPENCV, TENSORFLOW, CUDA

- Quickly developed a system that tracks faces live and performs smile detection.
- If the person isn't smiling, they are bombarded with NERF darts until they smile.
- Implemented OpenCV with a microcontroller to Increase Smiling by 200%