Connor **Bach**

Computer Science Student

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Education

University of Notre Dame

Notre Dame, IN

Pursuing Bachelor of Science in Computer Science

August 2016 - Present

- GPA: 3.4/4.0

Work Experience

Web Administrator

Portage, MI

Notre Dame Club of Kalamazoo

March 2017 - Present

- Lead web administrator for my local Notre Dame Club
- Manage website design, event scheduling, member registration, communications and member outreach
- Resolve technical issues for members
- Collaborate with Notre Dame technical support on member requests

Tennis Coach

Portage, MI

YMCA of Greater Kalamazoo

June 2014 - Present

- Certified by the USTA as a tennis coach with 4 summers of teaching experience
- Responsible for many classes with upwards of 20 students
- Taught ages ranging from preschoolers to adults

Projects

Personal Website

connorbach.me

- Coded in HTML/CSS/JavaScript
- Engineered with Bootstrap 3 for modern single-page design and scalability
- Designed functional tabs for easy navigation
- Created a responsive design for mobile compatibility

Multiplayer Board Game Simulation

github.com/ConnorBach

- Created in Matlab
- Simulates a multiplayer board game where 5 AI's compete under set win conditions
- Object oriented design allows for multiple AI's with different strategies
- Can run individual animated games or large simulations of many games while providing data for each play through
- Different AI strategies have significant impacts on the winning percentages of each team

Dining Hall Guide

github.com/ConnorBach/nd_dh_guide

- Utilized Python, Selenium, BeautifulSoup4
- Web Scraper application that finds a user's favorite foods in the dining hall
- Obtains information from the dining hall's website and processes it to find the user's preferred foods

Digital Guitar Effects

github.com/ConnorBach

- Created in Matlab
- Simulates various digital guitar effects including reverb, overdrive, distortion, flanger and tremolo
- Allows for dynamic effects with input parameters and visual displays of the effects

Skills

C++, Java, Matlab, HTML/CSS/Javascript, Python