Luke Chesney

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Education

The Ohio State University Aug. 2021 – May 2025

Bachelor of Science in Computer Science & Engineering GPA: 3.70/4.00

- Awards:
  - Dean's List: AU21, SP22, SU22
- Activities and Involvement:
  - Social Chair & Peer Mentor, Humanitarian Engineering Scholars

Saint Ignatius High School Aug. 2017 – May 2021

- Activities and Involvement:
  - Founder and Leader, Aerospace Club
  - Senior Leader, Arimathea Pallbearer Ministry & Christmas Food Drive

Coursework and Skills

Relevant Coursework:

- Software I & II Data Structures & Software Design
- Foundations I & II Algorithms & Discrete Structures
- Systems I & II Low-Level Programming & Operating Systems
- Interactive Systems Design, Development, and Documentation of Interactive Systems

Skills: Java, Python, C/C++, C#, x86 Assembly, MATLAB, HTML, Bootstrap, JavaScript, Angular, .NET, Git, Linux/Unix, Arduino, Raspberry Pi, Soldering, SolidWorks, AutoDesk Maya, Adobe Suite

Relevant Experience

Teaching Assistant - CSE 2221: Software Design and Data Structures Jan. 2022 – Present

The Ohio State University College of Engineering

- Grade and provide constructive feedback for homework and projects of 40+ students.
- Debug student projects during biweekly labs and assist students with course content through office hours and tutoring.
- Communicate with and work alongside University Professors in a professional context.

Projects

Spotify Music Box *Python, Linux, Spotify API, Wireless Communication Protocols, Raspberry Pi, Circuits*

- Worked alongside three students in HackOHI/O 24-hour event. Communicated project goals to industry professionals and judges.
- Developed Python script to read and write Spotify song data on NFC chips using NFC reader API and Raspberry Pi GPIO.
- Utilized Spotify API to access song data and art, control playback, and remotely connect to registered devices.

Game Boy Zero *Raspberry Pi, Soldering, 3D Modeling, Linux, PuTTY, Emulation Software*

- Customized Game Boy shell to fit Raspberry Pi Zero Computer, LCD display, lithium-ion battery, and custom controller PCB.
- Configured custom Linux distro to recognize controller interface, wirelessly connect to the internet, and run game emulation software at optimal framerates.