Brian Duffy

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Education:

The Ohio State University, Columbus, Ohio *GPA (4.0 Scale): 3.98*

- Honors B.S. Computer Science Engineering, May 2023.
- Student in Fundamentals of Engineering Honors Program.

Solon High School, Solon, Ohio: Graduated with Honors Diploma: May 2019

National Merit Commended Scholar, 2018

Work Experience:

Web Application Engineer, Audio Odyssey, Summer 2019

- Developed a website using HTML, CSS, and JavaScript to allow authors to enter stories interactively.
- Designed a Python Flask backend to allow data to be accessed through an app and website.

Shadowed Software Engineer, General Electric, May 2018

- Shadowed software engineers working with Google Home and smart home technologies.
- Wrote software in Golang to increase efficiency when testing smart lightbulbs remotely.

Volunteer Experience:

Youth Staff of Scouts BSA National Youth Leadership Training, 2018-present

- Taught leadership skills to young men and women including conflict resolution and communication.
- Managed youth staff and ran logistics for the course.
- *Invited to speak at the 2019 Course Director's Conference* to share experiences.

Skills and Experience:

Computer Science

- Completed courses in Java, C++, Algorithms, Software Development, and Android App Development.
- Proficient in multiple languages including HTML, CSS, JavaScript, Java, Python, C/C++, and Shell.
- Taught web development to students as part of the CodeSpace club for three years.

Leadership

- Developed leadership skills through the National Youth Leadership Training, as a CodeSpace officer, youth leader of Scouts BSA troop, and as a band officer.
- Trained in conflict resolution, presentation skills, and team development.

Projects:

FEHPacman, 2019: Group Class Project

- Planned and developed C++ based Pacman clone during a two-week final project.
- Won awards for *Best Game* and *Best Documentation*.

College-Cheque, 2019: Group Project for 2019 HackOH/IO Hackathon

- Constructed web application comparison tool in Flask over a 24-hour coding competition.
- Won *Best Financial Technology Award*.

Healthry.org, 2019: Group Project for 2019 HackCWRU Hackathon

- Constructed a web app to connect patients with healthcare providers.
- Built using HTML, CSS, and Python Flask.

6502 Virtual Machine, 2019: Personal Project

- Produced fully functional emulation of the MOS 6502 CPU in the C language.

Top-Down Shooter, 2018: Individual School Project

- Used Java Swing and OpenGL to develop top-down shooter in Java.
- Created a feature-rich experience with simple AI enemies.

Basic Shell, 2018: Personal Project

- Developed a fully functional, *sh* like shell in the C language.