

Aidan Walz

Software Developer

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[GitHub \(walz0\)](#)

EDUCATION

Indiana University

- Studied Computer Science and Mathematics

Career Academy South Bend

- High School Diploma

PROFESSIONAL EXPERIENCE

Freelance Software Development (Aug. 2021 - Present)

- Fullstack application design and development (React frontend / Node.js backend / MERN stack)
- Built applications for clients, ported to a web server when needed for scalability
- Smart contract design and development on the Solana and Ethereum networks
- Deployed website to handle thousands of simultaneous users for product launch

VODSearch - Intern (Aug. 2019 - Oct. 2019)

- Wrote software to leverage Google Tesseract Optical Character Recognition to do necessary image processing for parsing player names on Fortnite twitch streams

Career Academy South Bend - IT Associate (Jun. 2018 - Jul. 2019)

- Assisted students and staff by resolving support tickets
- Serviced student laptops and staff computers
- Developed staff software for tracking school bus data

Big Bits - Intern (Jun. 2018 - Aug. 2018)

- Developed an endless runner mobile game in Unity (C#)
- Designed a television set for a client in Autodesk Fusion 360 and did electrical wiring for lights in final construction

PROJECTS

[project-slippi](#) (C, C++, PPC x86 Assembly | Open Source)

Project for building a replay/metadata infrastructure for Super Smash Bros Melee

- Made well received contributions in several project-slippi repositories ([lshiiiruka](#), [slippi-ssbm-asm](#), [slippi-ssbm-c](#))
- Learned PowerPC x86 assembly by reading compiler code and a reference manual

[papel](#) (Python)

A raw text document router for writing papers in APA format

- Programatically generates an HTML file in APA format using a shorthand similar to Markdown
- Flexible shorthand allows users to format their raw text as they please with no effect on the output

[frc-match-dl](#) (Python)

A tool for easily downloading and processing First Robotics Competition matches from Twitch VODs.

- Leverages the twitch-dl command line tool's source to segment and download match videos
- Reverse engineers [The Blue Alliance](#) match verification tool to allow batch submitting of match videos

RELEVANT EXPERIENCE

FIRST Robotics (Team 5484) - Programming Team Lead (2017 - 2019)

- Competed at 11 events across the United States including the world championship in 2018
- Designed and built systems for autonomous and teleoperated control of robot in Java
- Utilized image processing and computer vision technology to assist in autonomous control of robot
- Taught programming concepts to classmates