

# Jacob Stauch

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🔗 <https://github.com/JacobStauch> • **in** [linkedin.com/in/jacobstauch](https://www.linkedin.com/in/jacobstauch)

Interdisciplinary developer and multi-instrumentalist. Linux and Open Source enthusiast.

## Education

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### Clemson University

*PhD Student*

**Clemson, SC**

*August 2020 - April 2021*

### Drury University

*BS in Computer Science - Software Engineering*

Minors: Mathematics, Cyber Risk Management

**Springfield, MO**

*May 2020*

GPA: 3.6

### Camdenton High School

*International Baccalaureate Diploma*

**Camdenton, MO**

*May 2016*

## Experience

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### Graduate Teaching Assistant

*Clemson University*

**Clemson, SC**

*Aug 2020 - April 2021*

- o Graded assignments and exams, gave detailed feedback, conducted labs, assisted with student projects.

### Research Assistant

*Drury University*

**Springfield, MO**

*Aug 2019 - May 2020*

- o HCI-oriented research in the synchronized use of monitors and touch screens that resulted in the Unity Vision Mixer.

### Summer Research Assistant, REU

*Old Dominion University*

**Norfolk, VA**

*May 2019 - August 2019*

- o Cybersecurity-oriented research in the detection of microarchitectural vulnerabilities.

## Projects

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**The Spatial Network:** Integrated SteamVR with Unity and implemented many features of the system, notably picking up and dropping packets in 3D space.

**Unity Vision Mixer:** Implemented a system that dynamically creates a grid of all cameras in a scene that the end user can then switch between.

**3DU:** Designed the Raspberry Pi client program in C++ using the Boost Asio library to listen for and process messages sent by the server.

**Springfield Workforce Development Prototype:** Implemented many back-end features such as parsing JSON and interfacing with the Google Maps API.

**NFSteal:** Designed a functional drawing canvas with brush color selector, implemented rendering the canvas into an image, and composed music.

## Skills

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**Languages:** Java, Python, C#, SQL, C++, BASH, JavaScript, PHP, LaTeX

**Libraries/Frameworks/Tools:** Unity, Boost Asio, CMake, React

**Miscellaneous:** Linux, Video Editing, 3D Modeling

## Extracurricular Activities/Events

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- o Dean's List (Fall 2018 - Spring 2020)
- o Vice President: Math and Computer Science Club (Fall 2019 - Spring 2020)
- o Distant Harmonies Virtual Ensemble
- o Drury Jazz Ensemble I & II
- o Drury Wind Quintet
- o ACM ICPC Mid-Central USA Regional
- o CCDC Midwest Wildcard Qualifier
- o ISACA Springfield, MO CTF 2017
- o St. Louis Global Game Jam 2018-2022
- o Hack4Good Springfield 2019