Kyle **Heller**

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kylljoy.github.io

Skills

- Proficient in C, Java, Python

- Familiar with PHP, Javascript, C++, Assembly, and Basic SQL Queries

- Familiar with Microsoft, OSX, and Arch, Debian, and Fedora Linux

Education

B.S. Computer Science, B.S. Applied Statistics August 2021 - Present

Sophomore, Purdue University; Expected graduation May 2025. Dean's List & Semester Honors for three consecutive semesters.
Cumulative GPA: 3.62

Experience

Technical Lead   Jun 2020 – Aug 2020
Stanford University Compression Forum

- Organized and led 3-person development team for three months

- Oversaw weekly stand-up meetings, set deadlines and goals

- Developed prototype virtual theater platform for pandemic usage

- Coauthored published research paper upon project conclusion

Network Operations and Vision Lead   Sep 2017 – Mar 2020
FRC Peninsula Robotics

- Designed custom, low-latency datagram protocol for distributed computer vision pipeline

- Reduced existing latencies by over 4ms

- Collaborated on vision-driven autonoumous programs.

CTO   May 2017 – Aug 2018
Disgracebook

- Performed CTO duties for parody-rooted social media "startup"

- Launched feature-complete social media site in approximately four months

- Developed codebase and managed associated database

- Included autonomous account validation, post scheduling, and self-sufficient moderation tools.

Projects

Neologos
- Neural network library for distributed learning on CPU
- Asynchronous distributed learning library written in C
- Includes self-written gradient descent optimization algorithm

- Based around philosophy that each directive utilizes no more than two characters

CharCrash
- Turing-Complete bytecode language with Custom VM written in C

Sterling
- Simple CPU-based 3D Graphics Engine for Blake O'Hare's Crayon Language.
- Includes self-written projection matrix and modular vertex shading