

Lachlan Sneff

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EDUCATION

The Pennsylvania State University, University Park, PA

May 2022

- Intended Bachelor of Science in Computer Science

WORK EXPERIENCE

Consultant, Oasis Labs

August/2018 — present

- Continuing development on the Nebulet operating system, with a goal of adding performant networking and support for the RISC-V CPU architecture.

Google Summer of Code 2018 Student, Mozilla

May/2018 — August/2018

- Designed and started development on Nebulet OS, an open-source operating system focused around improving performance (theoretically by as much as 30% in some workloads) through the use of software-isolation as opposed to hardware-isolation.
- Established a small community to facilitate further development on Nebulet.

Junior Developer, Loop Software LLC

June/2017 — September/2017

- Collaborated with a partner to build internal web applications.
- Performed full-stack development using jQuery, PHP, and MySQL.

LEADERSHIP EXPERIENCE

President, Centre County 4H Robotics

Sept/2017 — June/2018

- Led a team of about 20 high-school students to win at the 2018 *Worlds* FIRST Robotics Competition (FRC).
- Wrote most of the team's codebase for the 2017 and 2018 FRC seasons in C++ 14.
- Programmed the 2018 robot to follow a pre-computed spline-path through a complex gamefield.
- Enabled the 2017 robot to place game-pieces autonomously with OpenCV.

SIDE PROJECTS

Nebulet OS

May/2018 — present

- Open-source operating system that executes WebAssembly in ring-0 to minimize syscall overhead, allowing for a microkernel architecture while maintaining performance.

TECHNICAL SKILLS

Rust, Operating System Development, C, C++, x86-64 Assembly