

JAREK SAMIC

COMPUTER SCIENCE STUDENT

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cldfire.dev

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Experience

Google Summer of Code with FFmpeg
Student Developer

May 2019 - August 2019

Worked independently to research, design, and implement a hardware-accelerated (using the OpenCL API), single-pass video stabilization filter for the FFmpeg library. Please see the post on my site ("[Google Summer of Code 2019: Hardware-Accelerated Deshake Filter for FFmpeg](#)") to learn more.

Education

University of Akron - Akron, Ohio

2021 (expected)

B.S. in Computer Science with a minor in Mathematics — **3.9 GPA**

Dean's List, President's List

Completed 70 credits prior to graduating high school

Projects

Rust Wrapper for the NVIDIA Management Library

<https://github.com/cldfire/nvml-wrapper>

The NVIDIA Management Library is a C-based programmatic interface for monitoring and managing various states within NVIDIA GPUs. I maintain a safe and ergonomic Rust layer on top of it that encapsulates FFI calls within a Rustified interface.

Other

Panera Bread

January 2019 - Present

Associate

Deemed the "most reliable" employee by my managers, I currently open part of a local Panera M-F (meaning I wake up at 4:40 AM five days a week) and am proud of the role that I play there.

Lightning Talk at Programming Conference

2017

Rust Belt Rust - Columbus, OH

Gave impromptu talk about my work theming various sites in the Rust community; it can be viewed at <https://youtu.be/7VulqInDO6Y>

Volunteer Work - Youth Summer Camp

2014 - Present

Creative Director and Head of Video Production

Handle the logistics of coordinating team members and facilitating social media uploads multiple times a day while simultaneously shooting and editing a nearly ten-minute video to be shown at the end of camp, all within a three-day timeframe.

If watching smiling kids have fun makes you as happy as it makes me:

<https://youtu.be/9WB5WY9O2XY>

Technical

Rust

OpenCL

Linux (Arch, Ubuntu)

C / C++

FFI

macOS

Swift

Git, Continuous Integration

Windows (+ WSL)