

Alyssa Rosenzweig

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Experience

- Collabora (Jun 2019 - Present): Worked on Panfrost compilers and Gallium3D driver to provide an open-source OpenGL ES driver for Midgard and Bifrost GPUs.
- Panfrost (Jul 2017 - May 2019): As a community member, led a clean room reverse-engineering project to provide free and open-source Linux drivers for the popular Mali T-series GPUs. Implemented NIR-based Midgard shader compiler. Implemented Gallium-based OpenGL ES 2 driver in Mesa. Improved Linux kernel driver and shader disassembler. Presented project at XDC2018 conference in Galicia, Spain.
- purple-discord (Jun 2017 - Dec 2018): Improved user experience in the open Pidgin plugin for the chat system Discord. Translated into Spanish. Implemented bidirectional Markdown-HTML conversion.
- Free Software Foundation (Jun 2018 - Aug 2018; Boston, MA): Interned with technical team. Researched single-board computer compatibility. Engineered remote server management system. Enabled accessible PayPal donations through clean room API reverse-engineering.
- Yale University (Jan 2018 - Feb 2018): Assisted computer science PhD candidates' research with specialized software debugging. Enabled DRAM timing research via support and example code.

Education

- University of Toronto (Sep 2019 - Present). Applied Mathematics Specialist. Expected graduation 2023.
- Dougherty Valley High School (Sep 2016 - Jun 2019).
- John Hopkins University, CTY Online. Multivariable Calculus. Differential Equations.
- Harvard Summer School: Linear Algebra.

Awards & Publications

- Award for Outstanding New Free Software Contributor (2020).
- Google Open Source Peer Bonus (2020).
- LibrePlanet keynote speaker (2020).
- Lester B. Pearson International Scholar (2019).
- National Merit Finalist (2019).
- *Linux Format* magazine column Aug 2020, Mar 2020, Summer 2019.

Languages

- English (native)
- Spanish (fluent)
- French (basic)