

Alyssa Rosenzweig

alyssa@rosenzweig.io
<https://rosenzweig.io/>

Experience

- Valve (May 2023 - Present; contractor): Develop open source software to improve Linux gaming.
- Asahi Linux (Dec 2021 - Present): Lead reverse-engineering of the Apple GPU. Implement open source compiler, OpenGL, and Vulkan drivers for Apple Silicon, shipping in Asahi Linux.
- Collabora (Jun 2019 - April 2023): Worked on NIR-based compilers, OpenGL driver, and Vulkan driver to provide an open source graphics stack “Panfrost” for Arm Mali GPUs.
- Panfrost (Jul 2017 - May 2019): As a community member, led reverse-engineering project to provide free and open-source Linux drivers for Arm Mali GPUs. Implemented NIR-based shader compiler for “Midgard”. Implemented Gallium-based OpenGL ES driver.
- purple-discord (Jun 2017 - Dec 2018): Improved user experience for the 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. Designed remote server management system. Enabled accessible PayPal donations through API reverse-engineering.
- Yale University (Jan 2018 - Feb 2018): Assisted with firmware code for research on DRAM timing as a thermal covert channel.

Education

- University of Toronto (Sep 2019 - Jun 2023). Honours Bachelor of Science, High Distinction. Major in Computer Science, minors in Mathematics and Religion. GPA 3.82, Dean’s List 2021, 2022, 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

- LibrePlanet keynote speaker (2024, 2020).
- Award for Outstanding New Free Software Contributor (2020).
- Google Open Source Peer Bonus (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)