

# Daniel Miller

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## Education:

**Rensselaer Polytechnic Institute (RPI)**, Troy, NY May 2026  
Bachelor of Science in Computer Science and Economics

**Lake Forest High School**, Lake Forest, IL June 2022

**Programming Languages:** Javascript, Typescript, C/C++, Java, Python, SQL, bash, HTML/CSS, Sass

**Libraries/Frameworks:** React.js, Angular, TailwindCSS, Next.js, Node.js, Express.js, tRPC, Prisma, styled-components

**Design:** Figma, Affinity Designer, Adobe Premiere Pro

**Other:** Docker, NixOS, Firebase, Git, Algolia, Jira, Agile, OpenCV, Linux, Postgres

**Human Languages:** English (native), French (certified B2/upper intermediate), Ukrainian (conversational), Spanish (beginner)

## Work Experience:

**Retrospend** by Zedbruh LLC, Troy, NY - CEO Aug 2023 - Present

- Leading a team developing an open-source, self-hostable financial "Swiss Army knife," focused on simplicity, user privacy, and innovation.

**Rensselaer Union** - Troy, NY - Full-stack developer Jul '24 - Present

- Enhanced software widely used by RPI clubs and staff. Contributed valuable input on feature development and user communication.

**Global Foundries**, Malta, NY - CFM Process Engineering Intern May '23 - Aug '23 & Jun '24 - Aug '24

- Designed, built, and deployed a full-stack application to enable data management and configurability for wafer quality metrics.
- React.js, Next.js, Python, tRPC, Postgres, Docker, Prisma, SQL, Linux, Typescript, Tailwind

**UncommonX**, Chicago, IL - Software Developer Intern Jul 2021 - Aug 2022

- Angular, Typescript, PrimeNG, Docker, Python, bash, Linux

**Sachs Recreation Center**, Deerfield, IL - Fitness Desk Attendant Aug 2018 - Jan 2020

## Projects/Activities:

**[Self-Managed Server Environment \(NixOS + Docker\)](#)** - Independent Jan 2019 - Present

- Administer a range of self-hosted services through industry-standard platforms

**[Rookery](#)** - [github.com/syntheit/rookery](https://github.com/syntheit/rookery) - Rensselaer Center for Open Source (RCOS) Jan 2024 - Present

- Rookery combines automated check-ins, real-time game updates, and player profiles to streamline chess tournament management for players and organizers

**[ColorGuessr](#)** - [colorguessr.matv.io](https://colorguessr.matv.io) - Independent Nov 2022

- Developed an interactive game for color recognition, enabling users to guess screen colors using RGB or hex values, featuring both play and practice modes.
- React.js, Typescript, Next.js, Tailwind

**RPI Chess Club** - President Sep 2023 - Present

**Foreign Language Club** - President Feb 2024 - Present

**Rensselaer Economics Club** - Treasurer Feb 2024 - Present

**RPI Photo Club** - Treasurer Mar 2024 - Present