

# Anthony Fabius

Nesconset, NY 11767 • [afabius05@gmail.com](mailto:afabius05@gmail.com) • +1 (347)-272-8442 • [github.com/anthonyfabius](https://github.com/anthonyfabius) • [linkedin.com/in/anthony-fabius/](https://linkedin.com/in/anthony-fabius/)

## Education

### Rensselaer Polytechnic Institute (RPI)

Bachelors of Science, **Computer Science**

Troy, NY

Expected Graduation Date: May 2026

Coursework: Data Structures, Algorithms (I & II), Graph Theory, Theory of Computation, Linear Algebra, Operating Systems

Activities: Computer Science Honor Society, Fencing Club, Cyber Security Club, Foreign Language Club

## Research Experience

### RPI High-Performance Combinatorics & Graph Analytics Lab with Dr. George Slota

Troy, NY

#### Undergraduate Researcher

July 2024 – Present

- Developed scalable benchmark graph generators to evaluate graph-theoretical algorithms.
- Applied Hajos construction and critical graph theory to generate graphs with known chromatic numbers.
- Implemented null model graphs preserving input degree distribution while ensuring known optimal coloring.
- Conducted parametric study and algorithmic experiments to validate graph properties and benchmark performance.

## Professional Experience

### Google

Sunnyvale, CA

#### Software Engineer Intern

May 2025 - Present

- Software Engineer Intern on the Core Team in Sunnyvale CA

### Rensselaer Center for Open Source

Troy, NY

#### Coordinator

Aug. 2023 – Present

- Managed and oversaw a community of 500+ students, fostering collaboration and open-source contributions.
- Facilitated the organization of 100+ open-source projects and 40+ workshops, providing hands-on experience to students.
- Collaborated with external companies like IBM, Red Hat, and Microsoft to provide students with real world experience.

### Pure Storage

Santa Clara, CA

#### Software Engineer Intern

May 2024 – Aug. 2024

- Enhanced customer and developer insights by creating and deploying a file metadata analysis tool for a flagship product.
- Achieved millisecond-level analysis & visualization of petabytes of data leveraging DuckDB and Python.
- Developed an intuitive GenAI-powered querying interface for efficient, conversational data analysis.

## Projects

### ParadiseOS - [Github](#) - Operating System

Troy, NY

#### Co-Creator and Project Lead

Jan. 2023 – Present

- Developed a x86, 32-bit, general-purpose micro-kernel operating system in C from boot, working with a team of 3.
- Designed and implemented a custom binary format, a unique IPC protocol, and process hot-swapping functionality.
- Utilized Docker and Qemu to virtualize and run the OS allowing for a unified dev environment and seamless integration.

### EasyApp - [Github](#) - AI Powered Chrome Extension

Troy, NY

#### Co-Creator and Project Lead

Aug. 2023 – Dec. 2023

- Led a team of 12 to develop and deploy EasyApp, a cutting-edge AI powered Chrome extension designed to revolutionize the job application process by increasing application speed by 40%.
- Integrated technologies such as Typescript, React, Nodejs, ChatGPT, and Puppeteer into the project's stack to enhance user experience and streamline application workflows.
- Developed functional and user-friendly features such as: automatic job application form filling, drafting personalized responses, and tailoring resumes to specific job descriptions.

### RPI Food Finder - [Github](#) - Mobile App

Troy, NY

#### Creator and Project Lead

Jan. 2023 – May 2023

- Led the development of RPI Food Finder, an open-source dining hall menu tracker app accessed by over 100 students.
- Designed and developed the application from scratch, utilizing technologies such as Flutter, Dart, and Python.
- Implemented intuitive user interfaces, robust backend functionality, and seamless integration with Firebase to provide a user-friendly and reliable dining hall menu tracking experience for students.

## Skills & Interests

**Programming Languages:** C/C++, Dart, Java, Javascript, Kotlin, Python, SQL

**Technologies:** AWS, DuckDB, Docker, Firebase, Flutter, Git, Github, Linux, Nodejs, React

**Interests:** Graph Theory/Algorithms, Theory and Algorithms, Open Source Software, Distributed Systems, Network Science