

# Simon Pellerin<sub>she/they</sub>

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🐙 [simonomi](#) [simonomi](#)

Student at Wentworth Institute of Technology in Boston.  
Interested in application development, embedded systems, compiler engineering, GPU acceleration, and high-performance environments.  
Quick to acquire new skills and enthusiastic about open-source projects. Very interested in languages including Swift, Rust, Haskell, 日本語, and русский.

## Projects

### mage (unreleased)

Designed, developed, and iterated upon a Trakt client for iOS.

Swift SwiftUI REST JSON Trakt Xcode

### Metal Ray Tracer

🐙 [simonomi/MetalRayTracing](#)

Created a custom ray tracing engine from scratch using Metal.

Swift Metal MSL C++ Python

### carbonizer

🐙 [simonomi/carbonizer](#)

Designed and implemented an easy-to-use DS ROM-hacking tool.

Swift Foundation NDS

### Personal Website

🐙 [simonomi/simonomi.github.io](#) 🌐 [simonomi.dev](https://simonomi.dev)

Designed and built a mobile-friendly personal website.

HTML CSS DNS git

## Certifications/Awards

### CompTIA Security+ Certification

Knowledge and hands-on experience with core cybersecurity topics.

### Awards

- AP Scholar with Distinction
- National Cyber Scholar 2022
- MathWorks Math Modeling Challenge 2022
  - 2nd round - top 18.5%
- SkillsUSA Texas State Programming Finalist

## Education

### Wentworth Institute of Technology | Boston, MA

Computer Science, B.S.

Expected graduation: April 2025

GPA: 3.0/4.0

C Java Linux git PostgreSQL

## Skills

### Languages

Swift 2 years (~50,000 lines)

Python 7 years (~15,000 lines)

Java 5 years (~10,000 lines)

Rust 1 year (~1,000 lines)

ARM assembly Bash C C++ CSS

GDScript GLSL HTML JavaScript

Haskell  $\text{\LaTeX}$  SQL TypeScript

### APIs/Frameworks/Databases

Discord Heroku Metal Obsidian

Postgres REST Spotify SwiftSyntax

SwiftUI tkinter Trakt Vapor VLC

### Tools/Environments

Bash git Godot Linux macOS

SwiftPM Vim Windows Xcode

## Work Experience

### Stokan Jaggers & Associates

Nov. 2020 | July 2021 Katy, Texas

- Worked with others in a HIPAA-compliant office environment
- Organized and prepared documents in a standard format

### Whataburger #392

Sept. 2020 | Nov. 2020 Katy, Texas

- Worked in a team to prepare and deliver food to customers