Alice Pellerin she/they

🌐 simonomi.dev
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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
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 | Haskell | HTML
JavaScript | 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