Simon Rodriguez

📍 Massachusetts, USA or Remote

Education

University of Notre Dame August 2018 – May 2022 • Notre Dame, IN
Bachelor of Science, Computer Science GPA: 3.5

Languages and Frameworks

JavaScript • TypeScript • Svelte/SvelteKit • React.js • Python • MySQL • C/C++ • Figma • Git • Docker

Relevant Experience

Open Source Software Development

Web presence design and maintenance for an open-source project • January 2022 – May 2022

· Project to create an audio streaming server utilizing HTTP Live Streaming (HLS) to stream audio files to an unlimited number of clients, resembling internet radio.
· Developed and maintained a landing page and blog using 11ty, SCSS, and Nunjucks, along with wireframes created in Figma.
· Group utilized the GitHub issue/pull-request workflow to incorporate feedback from other groups, along with development of CI actions to automatically deploy the site and lint and format Python code.

Teaching Assistant, Systems Programming

Work experience managing second-year computer science students • January 2022 – May 2022

· Course for second year undergraduate Computer Science students. Managed class size of ~180 students.
· Held twice-weekly office hours in order to conduct code review, as well as pair-programming.
· Homework submission done through GitHub, making use of code review features to note logical and stylistic errors, as well as utilization of pull request approvals.

Windows 3.0 Solitaire Solver and Player

Computer security project testing reverse-engineering, algorithms, and GUI design • Spring 2022

· Project was to reverse-engineer the Windows 3.0 version of Solitaire, find an exploit within the game's memory, then design a program which utilized that exploit in order to automatically solve the game.
· Solver algorithm developed for this NP-Complete problem, utilizing recursive backtracking in order to efficiently find solutions if they exist.
· GUI developed using the Dear Imgui library which provided a guided solving interface.

Say Hello!

Portfolio: https://rodrig.dev
Email: simon@rodrig.dev
GitHub: https://github.com/simonrodrig/
References: Upon request.