

# Simon Rodriguez



 Massachusetts, USA or Remote

## Education

University of Notre Dame

Bachelor of Science, Computer Science

August 2018 – May 2022 • Notre Dame, IN

GPA: 3.5

## Languages and Frameworks

JavaScript • TypeScript • Svelte/SvelteKit • React.js • React Native • Expo • MongoDB • GraphQL • Figma

## Relevant Experience

**Volo Sports, Full Stack Software Engineer**

*Modernizing and Revitalizing Adult Social Sports Leagues* • February 2023 – Present

- Engineered for a software product to host and organize adult social sports leagues across 11 different cities in the US.
- Spearheaded codebase migration to TypeScript, introduced shared formatting, linting, and documentation, advocated for the move from a monolithic application to a set of microservices to meet players where they are.
- Introduced various UI additions for administrators with a focus on modularity, reusability, responsive design, and a11y. Migrated subscription architecture from Elixir service to TypeScript.

**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>

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GitHub: <https://github.com/simonrodrig/>

References: Upon request