

JOEL LOPEZ VILLARREAL

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PROJECTS

- **Go Interpreter for Lox:** An interpreter built from scratch written in Golang that interprets a made-up language called Lox. It follows the concepts provided by this book: <https://craftinginterpreters.com/>.
- **CPU Scheduling Visualizer:** A web application that visualizes to the user how a CPU schedules several processes according to the policy selected. Currently, it supports two policies: FIFO and Round Robin. The app was built using ReactJS and Typescript.
- **Real-time Multiplayer Card Game:** A .NET C# game that is composed of two projects: a frontend WPF application, and a server that listens to commands sent by the client. The server was built from scratch and only uses TCP sockets. The application protocols were also implemented from scratch.
- **Nuclear Reactor Simulator:** A web application that simulates an admin dashboard for controlling different nuclear reactors. It can toggle a cooling system, control reaction rods, fuel, etc. as well as display simple analytics to the user. The app was built using ReactJS and JavaScript.

EXPERIENCE

Software Developer at CIRC

Collegedale, TN.

May 2021 – August 2023

Main responsibilities for this position included full stack web development using PHP and Yii2, and development of RESTful APIs. Other frameworks such as Flutter were also used.

EDUCATION

BS in Computer Science and Mathematics Minor

Southern Adventist University | Collegedale, TN.

May 2024

Academic accomplishments include 4.0 GPA, receiver of the Dr. Rahn and Natalia Shaw award, and twice winner of the Top Achiever award.

TECHNICAL KNOWLEDGE

Technologies I'm fluent with: Golang, HTML, CSS, JavaScript, Yii2, PHP, Python.

Technologies I'm familiar with: Java, .NET C#, SQL, Typescript, Dart, ReactJS, ExpressJS, JQuery, NestJS, Flutter, Kotlin, TailwindCSS, SvelteKit, Docker, NodeJS.

Other useful knowledge: Bilingual in both Spanish and English.

REFERENCES

Siegwart Mayr (Senior Software Engineer at CIRC)

Collegedale, TN. | mayr@southern.edu